

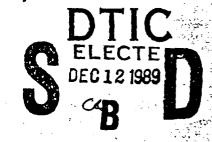
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Institute Report No. 404

Fourteen-Day Subacute Intravenous Toxicity Study of Hypertonic Saline/Dextran 70<sup>®</sup> and its Constituents in Beagle Dogs

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MAMMALIAN TOXICOLOGY BRANCH DIVISION OF TOXICOLOGY



November 1989

Toxicology Series: 249

LETTERMAN ARMY INSTITUTE OF RESEARCH PRESIDIO OF SAN FRANCISCO, CALIFORNIA 94129

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This research was conducted in compliance with the "Guide for the Care and Use of Laboratory Animals," NIH Publication No. 85-23, as prepared by the Institute of Laboratory Animal Resources, National Research Council.

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# 19. ABSTRACT (cont.)

parinamed on Days -1 and 13. The animals in each group were euthanized and surfitted to necropsy on Day 14. Clinical signs were observed with increased for-guerry in the HSD- and HS-treated groups and included disorientation, institutity, tremors, vomiting, excessive thirst, hunched posture, increased callivation, increased respiratory depth or rate, and panting. The D70-treated amorals exhibited signs with incidence intermediate to HSD- or HS-treated animals, and those treated with RL. The incidence and severity of observed Fights was greatest 1 hour after dosing, and declined over the following 24 Living until dosing was repeated the next day. Significantly increased water sinsumption was observed in the HSD- and HS-treated groups throughout the study period. D70- and HSD-treated animals exhibited statistically significant decreases in cholesterol (CHOL), albumin (ALB), albumin/globulin ratio (A-G), calcium (CAL), iron (IRCM), magnesium (MAG), erythrocyte omnt (FBT), hemoglobin (HGB), hematocrit (HCT), total leukocyte count (WBC), and placelet count (PLT). Significant increases in aspartate aminotransferase RAGIT, alkaline phosphatase (ALK), prothrombin time (PT), and activated cartial thromboplastin time (APTT) were observed following treatment with DTC or HSD, while increases in alanine aminotransferase (ALT) were observed filliwing treatment with HS or HSD. Elevations of ALT exhibited a dose reaponse, and after reaching maximal values by Day 2, gradually declined for the remainder of the study period. ALK reached maximal levels by Day 3 and gradually decreased at Days 7 and 14. The hematologic measurements of D70treated animals were affected more severely than those treated with HSD, and the effects on CHOL, ALB, A-G, CAL, IRON, RBC, HGB, HCT, PT, and APTT became more pronounced as repeated daily dosing continued through the 14-day study ceritd. A slight recovery of WBC and PLT was observed at Day 14. Hematologic measurements of HS-treated animals were unaffected by dosing. Body weights were unaffected by dosing, and, with the exception of mild hepatomegaly and oplenomegaly observed in female dogs treated with HSD or D70, no gross or microscopic lesions could be attributed to HSD or in . Anstituents. Since the proposed therapeutic dose of HSD is a single dose of 10 y 4 ml/kg, these findings indicate minimal adverse effects should be ancicipated with the therapeutic administration of HSD.

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#### **ABSTRACT**

The subacute toxicity following intravenous administration of a proposed resuscitation fluid, hypertonic saline/Dextran 70% (HSD), was evaluated in male and female beagle dogs. Animals received intravenous doses of HSD, at levels of 12, 16, and 20 ml/kg/day over a 5-minute period, daily for 14 days. Equal volumes of each HSD component, 7.5% hypertonic saline (HS) and 6% Dextran  $70^{9}$  (D70) in normal saline, were also evaluated. Ringer's lactate (RL), dosed at 20 ml/kg/day, served as the control. Blood samples were collected for serum chemistry and hematologic analyses on Day 0 (baseline), Days 1, 2, 3, and 7 before daily administration of the dosing solutions, and Day 14 before necropsy. Observations were made daily before dosing, 1 hour after dosing, and in the afternoon. Water consumption was monitored over a 24-hour period weekly during quarantine, daily for the first week of the study, and on Day 14. Direct and indirect ophthalmic examinations were performed on Days -1 and 13. The animals in each group were euthanized and submitted to necropsy on Day 14. Clinical signs were observed with increased frequency in the HSD- and HS-treated groups and included disorientation, inactivity, tremors, vomiting, excessive thirst, hunched posture, increased salivation, increased respiratory depth or rate, and panting. The D70-treated animals exhibited signs with incidence intermediate to HSD- or HS-treated animals, and those treated with RL. The incidence and severity of observed signs was greatest 1 hour after dosing, and declined over the following 24 hours until dosing was repeated the next day. Significantly increased water consumption was observed in the HSD- and HS-treated groups throughout the study period. D70and HSD-treated animals exhibited statistically significant decreases in cholesterol (CHOL), albumin (ALB), albumin/globulin ratio (A-G), calcium (CAL), iron (IRON), magnesium (MAG), erythrocyte count (RBC), hemoglobin (HGB), hematocrit (HCT), total leukocyte count (WBC), and platelet count (PLT). Significant increases in aspartate aminotransferase (AST), alkaline phosphatase (ALK), prothrombin time (PT), and activated partial thromboplastin time (APTT) were observed following treatment with D70 or HSD, while increases in alanine aminotransferase (ALT) were observed following treatment with HS or HSD. Elevations of ALT exhibited a dose response, and after reaching maximal values by Day 2, gradually declined for the remainder of the study period. ALK reached maximal levels by Day 3 and gradually decreased at Days 7 and 14. The hematologic measurements of D70-treated animals were affected more severily than those treated with MSD, and the effects on CHOL, ALB, A-G, CAL, IRON, RBC, HGB, HCT, PT, and APTT became more pronounced as repeated daily dosing continued through the 14-day study period. A slight recovery of WBC and PLT was observed at Day 14. Hematologic measurements of HS-treated animals were unaffected by dosing. Body weights were unaffected by dosing, and, with the exception of mild hopatomegaly and splenomegaly observed in female dogs treated with HSD or D70, no gross or microscopic lesions could be attributed to HSD or its constituents. Since the proposed therapeutic dose of HSD is a single dose of only 4 ml/kg, these findings indicate minimal adverse effects should be anticipated with the therapeutic administration of HSD.

Key Words: Subacute Toxicity, Intravenous Administration, Hypertonic Saline/Dextran 70®, Hypertonic Saline, Dextran 70®, Ringer's Lactate, Resuscitation Fluid, Dog

#### PREFACE

TYPE REPORT: Subacute Toxicity GLP Study Report

TESTING FACILITY:

US Army Medical Research and Development Command

Letterman Army Institute of Research Presidio of San Francisco. CA 94129-6800

SPONSOR: US Army Medical Research and Development Command

Letterman Army Institute of Research Presidio of San Francisco, CA 94129-6800 Project Director: Charles Wade, PhD

PROJECT/WORK UNIT/APC: 3S463807D836/087/TLRO

GLP STUDY NUMBER: 88008

STUDY DIRECTOR: Don W. Korte, Jr., PhD, LTC, MSC

Diplomate, American Board of Toxicology

PRINCIPAL INVESTIGATOR: Denzil F. Frost, MS, DVM, CPT, VC

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PATHOLOGIST: Charles B. Clifford, DVM, PhD, MAJ, VC

Diplomate, American College of

Veterinary Pathologists

DATA MANAGER: Yvonne C. LeTellier, BS

REPORT AND DATA MANAGEMENT:

A copy of the final report, study protocols, retired SOPs, raw data, analytical and stability data, and an aliquot of the test compound will

be retained in the LAIR Archives.

TEST SUBSTANCE: Hypertonic Saline/Dextran 70®

INCLUSIVE STUDY DATES: 12 January 89 - 29 March 89

OBJECTIVE: The objective of this study was to determine

the subacute toxicity of hypertonic

saline/Dextran 70® following intravenous

administration in male and female beagle dogs.

## ACKNOWLEDGMENTS

Michael J. Pearce, MA, provided research assistance. Ginny Gildengorin, PhD, provided assistance in the statistical analysis of data. SGT Tammie Heineman, SGT Barbara D. Green, SPC Dean K. Magnuson, BS, SPC Vilmar O. L. Villa, BS, Richard Katona, and Charlotte L. Gomez provided assistance in dose preparation and administration, data collection, animal care, and facility management. SPC Lisa M. Gross, BS, SPC Richard L. Randall, BS, SGT Gayle A. Orner, BS, and SGT William J. Nieding, BS, provided assistance in dose preparation and administration.

# SIGNATURES OF PRINCIPAL SCIENTISTS AND MANAGERS INVOLVED IN THE STUDY

We, the undersigned, declare that GLP study number 88008 was performed under our supervision, according to the procedures described herein, and that this report is an accurate record of the results obtained.

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LTC, MSC

Study Director

Data Manager

Principal Investigator

GARY M. ZAUCHA, DVM/DATE

CPT, VC

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# DEPARTMENT OF THE ARMY

LETTERMAN ARMY INSTITUTE OF RESEARCH
PRESIDIO OF SAN FRANCISCO, CALIFORNIA 94129-6800

SGRD-ULZ-QA

11 October 1989

MEMORANDUM FOR RECORD

SUBJECT: GLP Compliance for GLP Study 88008

1. This is to certify that in relation to LAIR GLP Study 88008 the following inspections were made:

- Protocol Review 11 July 1988 17 January 1989 - Animal Receipt/Room Inspection 17 January 1989 - Weighing 18 January 1989 - Fecal Analysis 19 January 1989 24 January 1989 - Measuring Water Bottles - Hematology 24 January 1989 - Serology - Dosing 31 January 1989 31 January 1989 - Obserations - Necropsy 14 February 1989 27 February 1989 - Histology

2. The institute report entitled "Subacute Toxicity of HSD and its constituents in Beagle Dogs," Toxicology Series 249, was audited on 28 September 1989.

CAROLYN M. LEWIS

Diplomate, American Board of

Carelyn M Henry

Toxicology

Quality Assurance Auditor

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Fourteen-Day Subacute Intravenous Toxicity Study of Hypertonic Saline/Dextran  $70^{\circ}$  and its Constituents in Beagle Dogs -- Zaucha et al.

#### INTRODUCTION

During conventional land warfare, it has been estimated that 90% of the deaths occur either in the field or en route to a fixed medical treatment facility and that 50% of those deaths occur due to hemorrhage (1). Conventional treatment of hemorrhage has involved infusion of isotonic resuscitation fluids at volumes equivalent to two or three times the volume of blood lost (2). Supplying this volume of resuscitation fluid on the battlefield for treatment of multiple casualties is not feasible.

Hypertonic crystalloid solutions have been used for the past 70 years in the treatment of hemorrhage (3). However, the consensus has been that unless followed by replacement of the lost blood volume, the beneficial effects of treatment with hyperosmotic solutions are transient (4). Recently, the addition of a hyperoncotic colloid, 6% Dextran  $70^{60}$ , to the hypertonic crystalloid, 7.5% saline, has significantly extended 96-hour survival rates compared with those obtained with normal saline or 7.5% saline (5). Should the effectiveness of this hypertonic saline/Dextran therapy be verified by clinical trial, it would provide a significant advance in the treatment of blood loss due to traumatic injuries.

As with any new treatment regimen, there are potential risks. Low molecular weight dextran could cause bleeding apportunities and phlebitis or possibly interfere with the pross-matching of blood (6). Hypertonic solutions could that the neurologic abnormalities induced by the rapid increases in osmolalities (7-9) or cardiac arrhythmias induced by the hypokalemia associated with the rapid expansion of extracellular space (2, 10). Consequently, the Division of Toxicology, Letterman Army Institute of Research, was tasked to provide an acute and subacute toxicity profile of the 7.5% hypertonic saline/6% Dextran 70% resuscitation fluid (HSD). This report describes the results of a 14-day subacute toxicity study of hypertonic saline/Dextran 70% following intravenous administration in male and female beagle dogs.

# Objective of Study

The objective of this study was to determine the 14-day subacute toxicity of hypertonic saline/Dextran  $70^{\$}$  following intravenous administration in male and female beagle dogs.

#### **MATERIALS**

# Test Substance

Name: Hypertonic saline/Dextran 70® (HSD)

LAIR Code No.: TP96

Lot Number: OD 59331

Expiration Date: 31 October 1989

Composition per 100 ml: Dextran  $70^{\textcircled{8}}$  6 g

sodium chloride  $7.\overline{5}$  g water for injection to 100 ml

Source: Pharmacia LEO Pharmaceuticals

Uppsala, Sweden

#### Test Substance Constituents

Name: Hypertonic (7.5%) saline (HS)

LAIR Code No.: TP98

Lot Number: CD 59339

Expiration Date: 31 October 1989

Composition per 100 ml: sodium chloride 7.5 q

water for injection to 100 ml

Source: Pharmacia LEO Pharmaceuticals

Uppsala, Sweden

Name: Dextran 70<sup>®</sup> (D70)

LAIR Code No.: TP95

Lot Numbers: NE 54941 and OD 59340

Expiration Dates: 31 May 1989 and 30 April 1990,

respectively

Composition per 100 ml: Dextran 70® 6 g

sodium chloride 0.9 g water for injection to 100 ml

Source: Pharmacia LEO Pharmaceuticals

Uppsala, Sweden

#### Control

Name: Ringer's lactate (RL)

LAIR Code No.: TP97

Lot Numbers: NC 54847 and OD 59336

Expiration Dates: September 1989 and 31 October 1989,

respectively

Composition per 100 ml: sodium chloride 600 mg

potassium chloride 30 mg

calcium chloride

dihydrate 20 mg sodium lactate 310 mg water for injection to 100 ml

Source: Pharmacia LEO Pharmaceuticals

Uppsala, Sweden

Other test substance information is presented in Appendix  $\mathbf{A}$ .

#### Animal Data

Thirry-six male and 36 female beagle dogs (Hazleton-LRE, 6321 South 6th St., Kalamazoo, MI 49009) were assigned to this study. They were identified individually with the supplier's ear tattoos and corresponding LAIR animal identification numbers. Six male and 6 female dogs were utilized for a preliminary range-finding study and quality control necropsy. The animal weights on receipt (12 January and 22 February 89, Phase I and II, respectively) ranged from 8.72 to 14.35 kg (weights recorded 17 January and 23 February 89, Phase I and II, respectively). Additional animal data are presented in Appendix B.

#### Husbandry

Study animals were individually housed in stainless steel runs, which conformed to standards published by the United States Department of Agriculture [Animal Welfare Act

(public law 91-579) and DHEW publication No. (NIH) 85-23 (revised, 1985)]. The diet, fed ad libitum, consisted of Certified Purina® Canine Diet 5007 (Ralston Purina Company, St. Louis, MO); water, purified by reverse osmosis, was provided by continuous drip from individual, calibrated, 2-liter cylinders. The animal room temperature and humidity were monitored continuously by hygrothermograph. The temperature was maintained in a range from 15.6°C to 26.7°C. The relative humidity was maintained in a range from 10% to 65% with occasional extremes to 81% for limited periods of time. The photoperiod was 12 hours of light per day (0600-1800 hours).

#### METHODS

This study was conducted in accordance with FDA guidelines (11) and LAIR SOP-OP-STX-107 (12).

## Group Assignment/Acclimation

The animals were randomized into ten groups of 3 male and 3 female animals each (Table 1). Allocation was accomplished using a computer-based, stratified, weight-biased method. The XYBION Path/Tox AESLCT Animal Allocation Program was used in conjunction with a VAX 750 Computer.

The study animals were acclimated for a minimum of 12 days before the day of dosing. During this period they were quarantined, examined, and had hematologic and serum chemistry analyses performed in accordance with LAIR SOP OP-ARG-36 (13). The animals were checked daily for signs of illness, and water consumption and body weights were measured weekly.

#### Dose Levels, Preparation, and Analysis

The maximum tolerated intravenous dose of H3D administered daily over a 5-minute period for 14 days was established at 20 ml/kg/day in preliminary pilot studies. This dose was chosen as the high dose level for HSD, HS, and D70. Intermediate (16 ml/kg/day) and low (12 ml/kg/day) dose levels for HSD, HS, and D70 were chosen as multiples of the proposed therapeutic dose (4 ml/kg). RL was administered to the controls at the high dose level only. Solutions were used as supplied by the manufacturer, Pharmacia LEO Pharmaceuticals. Analysis of the dosing solutions was provided by Pharmacia LEO Pharmaceuticals. Additional chemical data are presented in Appendix A.

TABLE 1
Dose Groups

Group	n (each sex)	Solution	Dose Level (ml/kg/day)		
1	3	hypertonic saline/Dextran $70^{\textcircled{\$}}$	12		
2	3	hypertonic saline/Dextran 70®	16		
3	3	hypertonic saline/Dextran 70®	20		
4	3	hypertonic saline	12		
5	3	hypertonic saline	16		
6	3	hypertonic saline	20		
7	3	Dextran 70/normal saline	12		
8	3	Dextran 70/normal saline	16		
9	3	Dextran 70/normal saline	20		
10	3	Ringer's lactate	20		

## Test Procedures

The subacute intravenous toxicity of hypertonic saline/Dextran  $70^{\$}$  was evaluated in parallel with solutions of its major constituents, hypertonic (7.5%) saline and Dextran  $70^{8}$  (6%) in normal saline, with Ringer's lactate serving as the control. The study was conducted in 2 phases with animals of both sexes and all dose groups included in each phase. To facilitate distribution of the workload, animals of each phase were further divided into subgroups of 6-9 animals, and a staggered start date for initial dosing of each subgroup was used. Each subgroup consisted of animals of one sex with each dose group equally distributed among the subgroups. Dosing began 31 January, 1, 7, and 8 February for the four Phase I subgroups; and 7, 8, 14, and 15 March 1989 for the four Phase II subgroups. Individual doses for Days 0-6 were calculated using the Day -1 body weights. Doses for Days 7-13 were calculated using the Day 7 body weights. study animals were fed at approximately 1300 daily during the observation period. The dosing solutions were administered

between 0800 and 1200 via the cephalic or saphenous veins. Each day, animals were dosed by subgroup, in order of group number within the subgroup; groups 1, 2, and 3, HSD being first; followed in sequence by groups 4, 5, and 6, HS; groups 7, 8, and 9, D70; and group 10 RL. When the dosing of one subgroup was completed, the next subgroup of 6-9 animals was dosed in order of group number until all animals were dosed each day. Each day, dosing of the female subgroups was completed before any males were dosed. Injections were made using 60 cc syringes (Becton Dickinson & Co., Rutherford, NJ, Lot No. 6E417) and butterfly catheters (Intravenous Injection Set, 19-gauge needle-pediatric, disposable type, size 3, Sherwood Medical Co., St. Joseph, MO, Lot No. 517600; and Miniset® Vein Infusion Set, 19-gauge x 22 cm, Travenol Laboratories, Inc., Deerfield, IL, Lot No. 2N1062M). Immediately following the injection, a pressure bandage was applied to control any bleeding from the injection site.

## Observations

During the 14-day observation period, clinical observations were accomplished daily before dosing, 1 hour after dosing, and in the afternoon. Body weights were recorded upon receipt of the animals, weekly during the quarantine and observation periods, and at necropsy. Water consumption was monitored for a twenty-four hour period, weekly during quarantine, daily for the first week of the study, and at 14 days. Blood samples were collected for serum chemistry and hematologic analyses during the pre- and postquarantine physical examinations, on Day O (baseline), Days 1, 2, 3, and 7 before daily administration of the dosing solutions, and on Day 14 at necropsy. Samples for hematology and clotting time determinations were collected in EDTA and citrate tubes, respectively. All samples for serum chemistry and clotting time determinations were centrifuged within an hour after collection and the serum or plasma frozen at  $-14^{\circ}$ C to -28°C without interruption for a week before analyses. Direct and indirect ophthalmic examinations of all study animals were performed on Days -1 and 13.

## Necropsy

All animals were submitted for necropsy on Day 14 immediately after receiving a lethal dose of a barbiturate solution. Histopathologic examination was performed on the brain, including sections of the medulla/pons, cerebellar cortex, and cerebral cortex; spinal cord; eyes; thigh musculature/sciatic nerve; diaphragm; bone/bone marrow; pituitary; thyroid/parathyroids; trachea; tonsils; salivary gland; thymus; lungs; splean; representative lymph node;

mammary gland/skin; kidneys/adrenals; pancreas; liver; gall bladder; gonads; uterus/prostate and epididymis; urinary bladder; ireter; heart; aorta; cephalic vein proximal and distal to injection site; esophagus; stomach; duodenum; jejunum; ileum; colon; cecum; and all gross lesions.

#### Statistical Analysis

The means and standard deviations for the body weight, water consumption, serum chemistry, and hematology data for each group were calculated. For the body weight data, an analysis of variance and the Bartlett's test for homogeneity were performed for each sex separately using the XYBION PATH/TOX software package. If the F-statistic was significant for an analysis of variance, differences from the control were evaluated using the Dunnett's t test for homogeneous data or the Modified T test for nonhomogeneous data. Water consumption, serum chemistry, and hematology data were analyzed using the BMDP statistical software package (14). To assure that no differences existed among the groups or sexes prior to dosing, the water consumption, serum chemistry, and hematology baseline (Day 0) data were subjected to a two-way analysis of variance (ANOVA) using sex and group as the factors of interest. If the F-statistic was significant for an analysis of variance for a particular measurement, differences among the sexes and groups were evaluated using the Student-Newman-Keuls multiple range test. To assure that changes across time were due to the administration of test solutions and not normal variation over time, the control group (RL) data was analyzed by a twoway ANOVA using sex and time as the factors of interest. If the F-statistic was significant for this analysis of variance, differences from baseline were evaluated using the Dunnett's t test. The remaining groups' data for Days 1 through 14 were then subjected to a four-way analysis of covariance using group, dose, sex, and time as the factors of interest, with each respective baseline serving as the covariate. Since the control group did not have 3 dose levels, it could not be included in the 4-way analysis. no interactions were found between the sex factor and the dose or group factors in the four-way analysis, data for both sexes was combined and a three-way analysis of covariance was performed using group, dose, and time as the factors of interest. In either case, if the F-statistic was significant for an analysis of covariance for a particular measurement, differences among the groups and doses, and sexes, if applicable, were evaluated using the Student-Newman-Keuls multiple range test. If time was a significant factor, the Newman-Keuls was performed for each time point separately. In addition, the water consumption, serum chemistry, and

hematology data of each group were subjected to a separate analysis of variance to determine if significant differences from baseline (Day 0) values occurred. Since significant sex differences were not observed among the groups at baseline, the sexes were combined for this analysis. If the F-statistic was significant for this analysis of variance, each time period was compared to the group's baseline value using the Dunnett's t test. The preponderance of "0.0" values precluded the performance of a valid statistical analysis for bilirubin data. All statistical tests were performed at the 0.05 level of significance. Clinical signs and gross and microscopic pathology findings were described for each animal and tabulated by groups.

## Duration of Study

Appendix C is a complete historical listing of study events.

#### Changes/Deviations

The protocol schedule refers to the first day of dosing as Day 0. Since XYBION programming refers to the first day of dosing as Day 1, a one-day discrepancy exists between the actual study day and the study day listed in the XYBION printouts for Appendix 0: Individual Animal Histories, and Appendix I: Pathology.

It is believed that this change had no adverse effects on the results of this study.

#### Storage of Raw Data and Final Report

A copy of the final report, study protocol, raw data, retired SOPs, and an aliquot of the test compounds will be retained in the Letterman Army Institute of Research Archives.

#### RESULTS

## Clinical Observations

The clinical signs observed were grouped into behavioral, general, gastrointestinal, respiratory, and ocular categories. With the exception of soft stool, which exhibited an equivalent incidence among all groups, all major clinical signs were observed with greatest incidence in animals receiving HSD or HS. The incidence of each individual sign was approximately the same among the HSD- and

HS-treated groups. The incidence of major signs in D70-treated groups was intermediate between the HSD- and HS-treated groups, and those treated with RL. Signs occurred only sporadically in RL-treated animals. With the exceptions of an increased incidence of excessive salivation in the middle and high-dose groups receiving HSD or HS, and an increased incidence of tremors in the middle and high-dose groups receiving HS or D70, the incidence of signs was not dose-related. No sex related differences were apparent in any of the clinical observations.

Behavioral signs was the most frequently observed category. Behavioral signs observed included disorientation (48 of 60 animals), inactivity (47 of 60), tremors (40 of 60), hyperactivity (6 of 60), pacing (5 of 60), circling (3 of 60), and staggering (2 of 60). Disorientation, inactivity, and tremors were observed with greatest incidence in HSD- and HS-treated animals. A moderate incidence of these three signs was observed in D70-treated animals, while the signs appeared only sporadically among those receiving RL. The incidence and severity of behavioral signs was greatest one hour after dosing each day. A gradual reduction in incidence and severity then occurred until most signs resolved within 24 hours after dosing. The signs reappeared after the next day's dosing, and repeated the cycle of resolution over the following 24 hours. Hyperactivity, pacing, circling, and staggering occurred sporadically throughout the study period, and were randomly distributed among the groups.

General signs observed included excessive thirst (32 of 60), hunched posture (31 of 60), increased salivation (29 of 60), decreased appetite (15 of 60), excessive bleeding from the injection site (2 of 60), swelling or edema of the injected leg (2 of 60), and bloody urine (1 of 60). Excessive thirst, hunched posture, and increased salivation were observed primarily in animals receiving HSD or HS. Increased salivation was the only sign that demonstrated a dose-response, and was observed primarily in the middle and high-dose groups treated with HSD or HS. Excessive salivation usually started before the dosing of an animal was completed. Many animals developed a conditioned response and would begin to salivate when removed from their run in preparation for dosing. The salivation generally subsided by the afternoon observation period. Excessive thirst, hunched posture, and increased salivation were observed with low incidence in animals treated with D70, and sporadically in those treated with RL. Decreased appetite was distributed equally among the groups. Excessive bleeding was observed only in D70-treated animals, and only during the second week of the study period. Swelling of the injected leg was

observed only in HSD- or HS-treated animals, and resolved within 48 hours in each case. Bloody urine occurred only once in 1 animal.

Gastrointestinal signs included vomiting (40 of 60), soft stool (37 of 60), and diarrhea (2 of 60). Vomiting was observed in all HSD- (18 of 18) and HS-treated (18 of 18) animals, and usually occurred within 1 hour after dosing. Vomiting occurred with a lower incidence in D70-treated animals (4 of 18), and was not observed at all in animals treated with RL. The frequency of vomiting decreased over the 14-day study period. The frequency of vomiting for week 2 was approximately 1/2 that of the first week. Soft stool was observed with relatively equal distribution among the groups and study days. Diarrhea was observed only in 2 HSD-treated animals, and resolved within 48 hours in each case.

Respiratory signs included increased respiratory depth (15 of 60), panting (12 of 60), increased respiratory rate (3 of 60), and congestion (3 of 60). Increased respiratory depth was observed with greatest incidence in animals treated with HSD (7 of 18), followed by those treated with HS (5 of 18) and D70 (3 of 18). Panting was most prevalent in animals receiving D70 (6 of 18), followed by HS (4 of 18), and HSD (2 of 18). Increased respiratory rate and congestion were sporadically observed among the groups. No respiratory signs were observed in animals receiving RL.

The ocular signs, squinting and ocular or nasal discharge, were each observed in only 1 animal of the HSD- or D70-treated groups.

Direct and indirect ophthalmic examinations revealed no visible lesions in any of the study animals on Days -1 or 13.

A summary of clinical observations is presented in Table 2. Individual animal histories are presented in Appendix D.

## Body Weights

Animal body weights were not significantly affected by dosing. Group mean body weights are presented in Table 3. Individual animal body weights are presented in Appendix E.

### Water Consumption

Group mean water consumption data are presented in Table 4. Individual animal water consumption data are presented in Appendix F No statistically significant differences were detected among the groups (HSD, HS, and D70), dose levels

(12, 16, and 20 ml/kg/day), or sexes at baseline (Day 0). The four-way analysis of covariance for Days 1, 2, 3, 7, and 14 demonstrated that sex was not a significant interacting factor with group or dose for water consumption following the initiation of dosing. Therefore, the data were subjected to a three-way analysis of covariance, followed by the Student-Newman-Keuls multiple range test, with data from both sexes combined. Dose level was not found to be a significant factor affecting water consumption. Significant group effects, however, were observed. Animals receiving HSD and HS were shown to have statistically equivalent water consumption. The water consumption of HSD- and HS-treated animals was significantly greater than that of D70-treated animals at Days 1 through 7 and Day 14. HSD- and HS-treated animals consumed approximately 2.5 times as much water as those treated with RL or D70. When the mean values at each time point (Days 1, 2, 3, 4, 5, 6, 7, and 14) were compared to the baseline values (Day 0) for each respective group and dose level, significant increases in water consumption were observed at Days 1 through 7 and Day 14 for animals receiving low, middle, and high doses of HSD and HS. Animals treated with D70 exhibited slightly increased water consumption, but the change was not significant compared to baseline. water consumption of RL-treated animals was unaffected by dosing.

#### Serum Chemistry

Group mean serum chemistry data are presented in Table Individual serum chemistry data are presented in Appendix G. No statistically significant differences were detected among the groups (HSD, HS, and D70), dose levels (12, 16, and 20 ml/kg/day), or sexes at baseline (Day 0). After the initiation of dosing (Days 1, 2, 3, 7, and 14), the four-way analysis of covariance did detect significant group (HSD, HS, and D70) effects, with an interaction with the sex factor, for triglyceride (TRIG). Since sex was a significant interacting factor for this measurement, the sexes were kept separate for the subsequent Student-Newman-Keuls multiple range test. For the remaining serum chemistry measurements, sex was not a significant interacting factor with group or dose. Therefore, the data for the remaining measurements were subjected to a three-way analysis of covariance, followed by the Student-Newman-Keuls multiple range test, with data from both sexes combined.

Moderate increases in aspartate aminotransferase (AST) and alkaline phosphatase (ALK) were observed in animals treated with D70 or HSD. Elevated AST levels were observed by Day 1, and remained relatively constant through Day 14.

ALK levels progressively increased to peak at Day 3, and then decreased through Day 14. At Day 14, however, the ALK values were still elevated compared to baseline for HSD- and D70treated animals. AST and ALK levels of HSD- and D70-treated animals were significantly greater than those of HS-treated animals at Days 1, 2, 3, 7, and 14. The AST levels of HSDtreated animals were also significantly greater than those of D70-treated animals at Days 1, 2, and 3. When the mean values at each time point (Days 1, 2, 3, 7, and 14) were compared to baseline values (Day 0) for each respective group and dose level, statistically significant increases in AST were observed in animals treated with low, middle, and high doses of D70, and low and high doses of HSD at Days 1, 2, 3, 7, and 14. Animals receiving middle-doses of HSD also exhibited increases in AST, but the differences from baseline were not statistically significant. The mean ALK values for all groups treated with D70 or HSD were significantly increased compared to baseline at Days 1, 2, 3, 7, and 14.

Following treatment with D70 or HSD, progressive decreases were observed for cholesterol (CHOL), albumin (ALB), albumin/globulin ratio (A-G), calcium (CAL), and iron (IRON). The mean ALB and IRON values for D70- and HSDtreated animals were statisically equivalent and significantly less than those of HS-treated animals at Days 1, 2, 3, 7, and 14. The mean CHOL, A-G, and CAL values for D70- and HSD-treated animals were also statisically equivalent and significantly less than those of HS-treated animals at Days 2, 3, 7, and 14. When compared to the respective baseline values, statistically significant decreases in CHOL were observed for animals treated with middle and high doses of HSD or D70 (Days 2, 3, 7, and 14); decreases in ALB were observed for animals treated with low (Days 2, 3, 7, and 14), middle (Days 1, 2, 3, 7, and 14), and high (Days 2, 3, 7, and 14) doses of HSD, and low (Days 2, 3, 7, and 14), middle (Days 1, 2, 3, 7, and 14), and high (Days 1, 2, 3, 7, and 14) doses of D70; decreases in A-G were observed for animals treated with middle (Days 2, 3, 7, and 14) and high (Days 1, 2, 3, 7, and 14) doses of HSD, and low (Days 2, 3, 7, and 14), middle (Days 2, 7, and 14), and high (Days 2, 3, 7, and 14) doses of D70; decreases in IRON were observed for animals treated with high doses of D70 (Days 1, 2, 3, 7, and 14); and decreases in CAL were observed for animals treated with high doses of HSD or D70 (Day 14).

The mean potassium (K) values of D70- and HSD-treated animals were significantly less than those of HS-treated animals at Days 2, 7, and 14. The K values of D70-treated animals were also significantly less than those of HS-treated animals at Day 3. The mean K values of HS-treated animals fluctuated either side of baseline, while those of D70- or

HSD-treated animals were consistently less than baseline. However, no statistically significant deviations from baseline were observed.

Following treatment with D70 or HSD, decreases were also observed for magnesium (MAG). Compared to baseline, the decreases were statistically significant only for animals treated with high doses of D70 at Days 2, 3, 7, and 14. The mean MAG values for HS-treated animals generally increased compared to baseline, but the changes were not statistically significant. The mean MAG levels of D70- and HSD-treated animals were significantly less than those of HS-treated animals at Days 2, 3, 7, and 14. At Day 14, the MAG levels of D70-treated animals were also significantly less than those of animals treated with HSD.

Following treatment with HS, statistically significant increases compared to baseline values were observed for lactate dehydrogenase (LDH), creatinine (CR), chloride (CL), alanine aminotransferase (ALT), and triglyceride (TRIG). The differences in LDH, CR, and CL, while statistically significant among treatment groups, were isolated or inconsistent, and fluctuated to either side of the respective baseline values. The mean NA values for HS-treated animals were significantly greater than those of D70- or HSD-treated animals at Days 7 and 14. The mean NA values for HS-treated animals were also significantly greater than those of D70treated animals at Day 3. When compared to baseline values, the mean NA values for animals treated with middle and high doses of HS increased, while those of HSD- or D70-treated groups decreased. However, the differences from baseline were not statistically significant for any of the treatment groups. Moderate increases in ALT were observed for all groups treated with HSD or HS at Days 1, 2, 3, 7, and 14. The ALT levels peaked at Days 1 or 2, and then declined through Day 14. At Day 14, however, the values remained elevated compared to baseline. The mean ALT values of animals treated with HSD or HS were significantly greater than those treated with D70 at Days 1, 2, 3, 7, and 14. The greatest increases in ALT were observed for animals treated with HS, followed by those treated with HSD. When compared to baseline values, the increases were statistically significant for animals treated with middle and high doses of HSD (Days 1, 2, and 3), and middle doses of HS (Days 1 and 2). The ALT of D70-treated animals remained relatively unchanged compared to baseline. Dose level (low < middle < high) was also found to be a significant factor affecting ALT levels. The mean ALT values of the high-dose groups were significantly greater than those of the low and middle-dose groups at Days 1, 2, 3, 7, and 14. Dose level was not a significant factor affecting other serum chemistry

measurements. At Day 2, the TRIG of HSD- and HS-treated female animals were significantly greater than those of animals treated with D70. At Day  $^7$ , the mean TRIG values of HS-treated females were significantly greater than those of animals treated with D70. At Day animals treated with HSD or D70. The mean IRIG values for female animals treated with HSD, HS, and D70 were significantly different from each other at Days 3 and 14 (HS > HSD > DTO). For the males, HSD- and HS-treated groups exhibited TRIG values significantly greater than those treated with DTO at Day 3. At Days 7 and 14, the HS-treated males exhibited TRIG values significantly greater than those treated with HSD or D70. When compared to haseline values, statistically significant increases in TRIG were observed for male and female animals treated with low doses of HS (Days 2, 3, and 14), and middle and high doses of HS (Days 3, 7, and 14). Increases in TRIG were also observed for the male and female control groups, but the differences from baseline values were not statistically significant. Male animals treated with HSD or D70, and females treated with HSD exhibited variable TRIG values. Although not statistically significally, decreases in TRIG were observed for females treated with D70.

Other changes in serum chemistry measurements appeared to be random occurrances. Differences in glucose were detected among the treatment groups at Days 2, 7, and 14, but values did not differ significantly from respective baselines. At Day 1, the blood urea nitrogen of animals receiving high doses of HSD was significantly decreased compared to baseline. The only statistically significant changes observed in the serum chemistry measurements of control animals treated with RL were increases in uric acid at Days 7 and 14 for the males and females, respectively.

# Hamatology

Group mean hematology data are presented in Table 6. Individual hematology data are presented in Appendix H. No statistically significant differences were detected among the groups (HSD, HS, and D70), dose levels (12, 16, and 20 ml/kg/day), or sexes at baseline (Day 0). After the initiation of dosing (Days 1, 2, 3, 7, and 14), the four-way analysis of covariance did detect significant group (HSD, HS, and D70) or dose (low, middle, high) effects, with an interaction with the sex factor, for prothrombin time (PT), atypical lymphocytes (ATL), and immature neutrophils (BAN). Since sex was a significant interacting factor for these three measurements, the sexes were kept separate for the subsequent Student-Newman-Keuls multiple range test.

A significant dose effect (low, middle, high) was observed in the mean PT at Days 3 and 14 for the male study animals. The mean PT values of the high-dose groups were significantly greater than those of the middle-dose groups at Day 3, while the low-dose groups exhibited intermediate values. At Day 14, the high, middle, and low-dose groups were all significantly different from each other (high > middle > low). Dose level was not a significant factor affecting PT values for female study animals. Significant group effects (HSD, HS, and D70) were observed in the PT data of both sexes at Day 14. For the females, all three groups were significantly different from each other (D70 > HSD > HS). For the males, the HSD- and D70-treated groups were statistically equivalent, and exhibited PT values significantly greater than those of HS-treated groups. When the mean values at each time point (Days 1, 2, 3, 7, and 14) were compared to baseline values (Day 0) for each respective group and dose level, statistically significant increases in PT were observed in male animals treated with middle doses of HSD (Day 14) and high doses of D70 (Day 14).

At Day 3, male animals receiving middle-dose levels of HSD, HS, and D70 exhibited a mean ATL significantly greater than those of the low or high-dose groups. No dose effect was observed in ATL for the females. At Day 7 however, a significant group effect was evident in the ATL of female study animals. The HS-treated females exhibited a mean ATL significantly greater than those of the HSD- or D70-treated animals. A group effect was not observed in the ATL of male animals. When the mean values at each time point were compared to baseline values, significant changes in ATL were not detected.

At Day 7, male animals receiving middle-dose levels of H3D, H3, and D70 exhibited a mean BAN significantly greater than animals receiving low or high dose levels of the test solutions. No dose effect was observed in the females for BAN, and no group effects were observed in BAN for either sex. When the mean values at each time point were compared to baseline values, significant changes in BAN were not observed.

For the remaining hematology measurements, sex was not a significant interacting factor with group or dose. Therefore, the data for the remaining measurements were subjected to a three-way analysis of covariance, followed by the Student-Newman-Keuls multiple range test, with data from both sexes combined. Significant group effects (HSD, HS, and D70) were observed for the erythrocyte count (RBC), hemoglobin (HGB), and hematocrit (HCT) at Days 2, 3, 7, and 14. These three measurements exhibited identical group

effects. At Day 2, the mean RBC, HGB, and HCT values of D70and HSD-treated animals were significantly less than those of HS-treated animals. At Day 3, the differences were statistically significant only between D70- and HS-treated groups. At Days 7 and 14, the D70-, HSD-, and HS-treated groups were all significantly different from each other. lose level was not a significant factor in the differences. At Days 2, 3, 7, and 14, the lowest mean values for RBC, HGB, and HCT were exhibited by D70-treated animals; HSD-treated animals exhibited intermediate values; and those treated with HS exhibited the highest values. The differences among the groups became progressively greater at each successive time point. By Day 14, the RBC, HGB, and HCT values for D70treated animals were borderline low normal compared to generally accepted normal limits. When the mean values at each time point were compared to baseline values for each respective group and dose level, significant decreases in RBC were observed in animals treated with low doses of D70 (Days 1, 2, 3, 7, and 14), middle and high doses of D70 (Days 2, 3, 7, and 14), low doses of HSD (Days 7 and 14), middle doses of HSD (Days 3, 7, and 14), and high doses of HS (Day 3 and 7). Significant decreases in HGB were observed in animals treated with low and middle doses of D70 (Days 1, 2, 3, 7, and 14), high doses of D70 (Days 2, 3, 7, and 14), low doses of HSD (Days 7 and 14), and middle doses of HS (Day 3). HCT was similarly affected with significant decreases observed in animals treated with low doses of D70 (Days 1, 2, 3, 7, and 14), middle and high doses of D70 (Days 2, 3, 7, and 14), low doses of HSD (Days 7 and 14), and high doses of HS (Days 1 and 3). At Day 14, significant increases in RBC were observed in animals treated with middle doses of HS, and significant increases were observed in HGB and HCT for animals treated with low and middle doses of HS.

Significant group effects were also observed in the platelet count (PLT), activated partial thromboplastin time (APTT), total leukocyte count (WBC), nucleated red blood cell count (NRBC), mean corpuscular volume (MCV), reticulocyte count (RET), and lymphocyte count (LYM). Dose level was not a significant factor affecting these measurements. As was observed for RBC, HGB, and HCT, the lowest mean values for PLT, WBC, NRBC, MCV, and RET were exhibited by D70-treated animals; HSD-treated animals exhibited intermediate values; and animals treated with HS exhibited the highest values. For APTT, the orders were reversed (D70 > HSD >HS). For LYM, animals treated with HS exhibited the highest values; D70treated animals exhibited intermediate values; and the lowest values were exhibited by HSD-treated animals. At Day 2, the PLT of HSD-treated animals was significantly less than that of HS-treated animals. At Days 3, 7, and 14, the mean PLT values of D70- and HSD-treated animals were significantly

less than those of HS-treated animals. When the mean values at each time point were compared to baseline values for each respective group and dose level, significant decreases in PLT were observed for animals treated with low and high doses of D70 (Days 3, 7, and 14), middle doses of D70 (Days 2, 3, 7, and 14), low doses of HSD (Days 3 and 7), middle doses of HSD (Days 2, 3, 7, and 14), and high doses of HSD (Days 1, 2, 3, 7, and 14). The mean APTT of D70-treated animals was significantly greater than that of HSD- and HS-treated animals at Day 7. At Day 14, the mean APTT values of D70-, HSD-, and HS-treated animals were all significantly different from each other (D70 > HSD > HS). When the mean values at each time point were compared to baseline values, significant increases in APTT were observed at Days 7 and 14 for animals treated with middle doses of D70, and middle and high doses of HSD. Although not statistically significant, distinct increases in APTT were also observed at Days 7 and 14 for animals receiving low and high doses of D70, and at Day 14 for animals treated with low doses of HSD. Significant differences between D70- and HSD-treated animals, and those treated with HS, were observed in the WBC and NRBC at Day 7. When compared to baseline, significant decreases in WBC values were observed for animals treated with high doses of HSD (Days 3, 7, and 14) and high doses of D70 (Days 2, 7, and 14). The WBC values did, however, remain within generally accepted normal limits throughout the study period. Although not statistically significant, inspection of the data for Days 3, 7, and 14 revealed a dose-response in the WBC decrease experienced by HSD- and D70-treated animals. did not exhibit significant changes from baseline. At Day 14, significant differences between D70- and HSD-treated animals, and those treated with HS included NRBC, MCV, and RET. Comparison to baseline values demonstrated significant increases in RET at Day 14 for animals treated with RL, and low and high doses of HS. Compared to baseline, significant increases in MCV were observed at Day 14 for animals treated with RL, and middle and high doses of HS. The increases in RET and MCV at Day 14 were the only statistically significant changes observed in the control-group (RL) animals. Animals treated with high doses of D70 exhibited significantly decreased MCV at Days 3 and 7. At Day 14, a significant difference between HSD- and HS-treated animals was observed in the mean LYM. When compared to baseline, significant decreases in LYM values were observed for animals treated with low doses of HSD (Day 14) and middle doses of HSD (Days 3 and 14). The MCHC of animals treated with middle doses of HS was significantly decreased at Day 14, compared to baseline.

## Necropsy Findings

Pilot study animals submitted as quality controls were free of disease; therefore, the shipment was deemed acceptable for the study. With the exception of mild hepatomegaly and splenomegaly in female dogs treated with HSD or D70, no gross pathological lesions attributable to the test compound or its constituents were reported. Microscopic lesions observed in the study animals were considered as incidental findings of little or no clinical significance, and no unique microscopic morphologic changes were associated with the increased liver or splenic weights. The Veterinary Pathologist's report is presented in Appendix I.

#### DISCUSSION

The subacute intravenous toxicity of HSD in dogs was evaluated by dosing groups of animals with 12, 16, or 20 mi/kg/day, over 5 minutes, daily for 14 days. Dose levels were selected based on multiples of the proposed therapeutic dose, 4 ml/kg (2), and the maximum tolerated dose of HSD which had been established in preliminary studies as 20 ml/kg administered over 5 minutes (15). In addition to dosing with HSD, groups of dogs were dosed with equal volumes of HS or The control group was dosed with RL at the 20 ml/kg/day dosage. Since RL is an isotonic solution, it provided a basis to compare the effects of the volume administered, and served to demonstrate that changes occurring in HSD-, HS-, or D70-treated animals were in fact due to the solutions administered and not normal variation over time resulting from extraneous experimental factors. Therefore, differences between baseline measurements and measurements made after the initiation of dosing with HSD, HS, and D70 can be attributed to the effects of the latter test solutions.

The incidence of clinical signs was approximately the same among HSD- and HS-treated animals. D70-treated animals generally exhibited a lower incidence of signs compared to HSD- and HS-treated animals. Signs were observed with sporadic incidence among animals treated with RL. With the exceptions of increased salivation in HSD- and HS-treated animals, and tremors in HS- and D70-treated animals, a doseresponse was not observed for clinical sign incidence. No differences due to sex and no mortalities were observed. The greatest incidence and severity of signs were observed 1 hour after dosing. Most clinical signs gradually resolved during the following 24 hours until dosing was repeated the next day. Signs observed with increased incidence in the HSD- and HS-treated groups included disorientation, inactivity,

tremors, vomiting, excessive thirst, hunched posture, increased salivation, increased respiratory depth or rate. and panting. The D70-treated animals also exhibited an increased incidence of disorientation, inactivity, tremors, panting, increased tespiratory depth or rate, and vomiting when compared to the controls. The increased incidence of panting was most apparent during the second week of the study, and may have been a manifestation of the progressive decrease in erythrocyte count, hemoglobin, and hematocrit observed for HSD- and D70-treated animals, as well as the plasma volume expansion induced by HSD, HS, and D70. Two D70-treated animals also exhibited excessive bleeding from the injection site following dosing during the second week of the study period. The infusion of large doses of dextran and the prolonged infusion of dextran solutions have been associated with decreased platelet adhesiveness (5). study, animals treated with D70 or HSD exhibited significantly decreased platelet counts as well as prolonged clotting times. Each of these factors may have contributed to the excessive bleeding by the 2 D70-treated animals. The observation that the majority of behavioral, general, gastrointestinal, and respiratory signs occurred primarily in animals receiving HSD and HS suggests that the hypertonic saline component was responsible for inducing the signs. This is consistent with the observation that dextran is well tolerated when administered intravenously at doses up to 40 ml/kg in various animal models (G. Jonsson, Pharmacia Pharmaceuticals AB, personal communication). Signs were most likely due to the transient derangement of plasma-tissue osmotic balance. Rapid increases in serum sodium and chloride have been associated with neurologic abnormalities (6), which may explain the increased incidence of behavioral disturbances observed in HSD- and HS-treated animals. Vomiting and salivation may have been the result of stimulation of the chemoreceptor trigger zone or the vomiting center of the medulla. Increased respiratory depth and rate were most likely the result of hemodynamic changes induced primarily by the HS component.

Body weights were unaffected by dosing.

A significant increase in water consumption was observed on Days 1 through 7 and Day 14 in the HSD- and HS-treated animals. This is consistent with the increased water volume required for excretion of the excess NaCl component of these solutions.

Following the administration of HSD, moderate elevations of aspartate aminctransferase (AST), alkaline phosphatase (ALK), and alanine aminotransferase (ALT) were observed. Elevations of AST and ALK for D70-treated animals, and the

absence of such changes for those treated with HS, suggest that the dextran component of HSD was responsible for AST and ALK increases. While elevated AST levels remained relatively constant after Day 1, the mean ALK values progressively increased until peak values were reached by Day 3. Although still elevated above baseline, progressive decreases in ATK were observed at Days 7 and 14. Elevations of ALT for HStreated animals, and the absence of such changes for those treated with D70, suggest that the saline component of HSD was responsible for the increases in ALT. Elevations of ALT were greatest in animals receiving HS, and a dose response (low < middle < high) was apparent. ALT reached maximal values by Day 2, and, although remaining elevated compared to baseline, gradually decreased for the remainder of the study period. The elevation of AST, ALK, and ALT suggests that both the saline and the dextran components of HSD have an effect on canine hepatocytes. Small increases in triglycerides observed for animals treated with HS are consistent with hepatic changes. The magnitude of the enzyme elevations, subsequent decreases in ALK and ALT levels, and the absence of morphologic changes in the liver indicate that any hepatic alterations were minor and transient, with no residual effect.

Progressive reductions in cholesterol (CHOL), albumin (ALB), albumin/globulin ratio (A-G), calcium (CAL), and iron (IRON) were observed for animals treated with HSD or D70. Magnesium (MAG) levels were also significantly decreased, and inspection of the data revealed consistent decreases in potassium (K) and sodium (NA) for these animals.

By Day 1, progressive decreases in the erythrocyte count (RBC), hemoglobin (HGB), hematocrit (HCT), and platelet count (PLT) had also begun in animals treated with HSD or D70. D70-treated animals were more severely affected than those treated with HSD. The changes in RBC, HGB, HCT, and PLT were unrelated to dose level or sex, and no consistent changes in these measurements were observed following dosing with HS or RL. Compared to respective baseline values, statistically significant decreases in the mean RBC, HGB, and HCT, for HSDand D70-treated animals, were observed by Day 7. Decreases in the mean PLT of HSD- and D70-treated animals were statistically significant by Day 2. The decreases in PLT continued until the lowest values were reached at Day 7. At Day 14, although the PLF values were still significantly less than baseline, the mean PLT of the majority of HSD- and D70treated groups increased, and animals receiving high doses of HSD and low doses of D70 experienced only a slight decrease in PLT from Day 7 to Day 14. The mean RBC, HGB, and HCT continued to decline for all groups treated with HSD or D70, until the lowest values were reached at Day 14. At this

time, the RBC, HGB, and HCT of D70-treated animals were borderline low normal compared to generally accepted normal limits. While significant increases in reticulocyte count (RET) and mean corpuscular volume (MCV) were observed for RL-and HS-treated animals at Day 14, animals treated with HSD or D70 apparently failed to respond to decreasing erythrocyte counts, and no significant increases were observed in their RET or MCV values. At Day 14, the MCV and RET of HSD- and D70-treated animals were significantly less than those of HS-treated animals.

Significant decreases in total leukocyte count (WBC) were also observed for HSD- and D70-treated animals. Inspection of the WBC data revealed a dose-response in this decrease. As observed for PLT, the decrease peaked at Day 7, with a slight recovery at Day 14. However, the mean WBC values for all groups and dose levels remained within generally accepted normal limits throughout the study period.

The progressive decreases in CHOL, ALB, A-G, CAL, IRON, MAG, K, NA, RBC, HGB, HCT, PLT, and WBC associated with the repeated daily administration of HSD or D70 may be attributed to the gradual accumulation of dextran in the serum, and subsequent progressive hemodilution. Data collected after the administration of a single dose of dextran at a dosage of 20 ml/kg in beagle dogs (15), indicated that at 24 hours after infusion, only 40% of the dextran had been removed from the serum (M. Dubick, Letterman Army Institute of Research, personal communication). M. Dubick has also observed that the half life of dextran is approximately 7.4 and 9.9 hours in the pig and rabbit, respectively. Twenty-four hours after dosing, dextran concentrations would still be elevated and detectable in the serum of dogs. Therefore, the repeated administration of dextran-containing solutions every 24 hours would result in gradually increasing serum dextran concentrations until a plateau is reached several days after the initiation of dosing. A progressive expansion of plasma volume may accompany the increasing serum dextran concentrations, resulting in hemodilution and relative decreases in the affected serum chemistry and hematologic measurements. Ultimate serum dextran concentrations, and the resulting degree of hemodilution, would be dependent upon dose level and the rate of clearance of dextran from the serum. HSD-treated animals may have been less severely affected than those treated with D70 due to the diuretic effect of the saline component of HSD. Increased urinary water loss necessary to excrete excess NaCl may have had an ameliorating effect on dextran-induced plasma expansion or may have altered the excretion of the dextran. Since the RLtreated control animals did not experience similar decreases in serum chemistry or hematologic measurements, it is

unlikely that blood loss due to sampling was a significant factor affecting these measurements for animals treated with HSD or D70. Splenic sequestration of erythrocytes and platelets, consistent with increased splenic weights for HSD-and D70-treated animals, may have contributed to decreased RBC, HGB, HGI, and PLT values. Increased removal of erythrocytes from the circulation by the reticuloendothelial system of the liver and spleen may also have contributed to the decline of RBC values. Since normal canine erythrocytes have a circulating lifespan of 100 to 120 days (16), decreased erythropoiesis is most likely not a significant factor contributing to the RBC decline.

Significant increases in prothrombin time and activated partial thromboplastin time (PT and APTT) were observed following the administration of HSD or D70. A significant gose-response was apparent in the PT of male study animals. The increases in PT and APTT were more severe in D70-treated animals than those treated with HSD, and became progressively greater with time. By Day 7, elevations in PT and APTT were statistically significant, and maximum values were observed at Day 14 for both measurements. A slight rise was observed in the APTT of RL- or HS-treated animals, but the change was minimal with no statistical significance. Most coagulation factors are synthesized by the liver, and prolongation of PT and APTT are not uncommon findings in severe, acute, hepatopathies in dogs (17). The increases in hepatic enzymes observed in HSD- and D70-treated animals are consistent with acute hepatocellular damage and subsequent reduction in the synthesis of coagulation factors. However, the absence of clinical signs referable to liver disease, and the lack of hepatic lesions on histopathological examination, suggest that the enzyme elevations may have been due to enzyme induction or hepatic proliferation rather than hepatocellular damage. Enzyme induction and hepatocellular proliferation would be more consistent with the lack of morphologic lesions and the increased liver weights observed at necropsy for animals treated with HSD or D70.

Other alterations in hematology measurements, although statistically significant among groups, were inconsistent, and did not vary from generally accepted normal limits.

The only significant treatment-related findings observed at necropsy were mild hepatomegaly and splenomegaly in female dogs treated with HSD or D70. The increased liver and splenic weights, however, were not associated with any morphologic alteration on histological examination. Possible explanations for increased liver weights include fluid expansion in a highly vascular organ, increased hepatocellular glycogen storage following repeated

administration of dextran-containing solutions, or congestion. Splenomegaly is usually associated with lymphoid hyperplasia, reticuloendothelial hyperplasia, smooth muscle hyperplasia, or congestion. None of these alterations were observed in the livers or spleens of affected animals. This suggests that if any morphological changes occurred due to the administration of the volume expanders, they were transient.

These data suggest that the clinical toxicity observed following HSD administration was attributable primarily to the HS component, and is an expected physiological response to large volumes of hypertonic saline. Significant decreases in cholesterol, albumin, serum electrolytes, erythrocyte counts, associated hematological measurements, total leukocyte counts, and platelet counts; and significant increases in blood clotting times, were attributable to the dextran component, and occurred only after repeated administration of the test solutions. Moderate increases in serum hepatic enzyme levels, attributable to both dextran (AST and ALK) and high doses of hypertonic saline (ALT), were associated with no residual functional or morphologic effects.

#### CONCLUSION

The repeated daily administration of HSD resulted in significant decreases in cholesterol, albumin, serum electrolytes, platelet, leukocyte, and erythrocyte counts, and associated hematological measurements. These alterations, as well as increased clotting times, are attributable to the dextran component of HSD. Other toxicity associated with HSD administration is consistent with the administration of large volumes of hypertonic saline and hepatic metabolism of dextran. Since the proposed therapeutic dose of HSD is a single dose of only 4 ml/kg, these findings indicate that there will be minimal adverse effects associated with the therapeutic administration of HSD.

TABLE 2
Clinical Observations Summary<sup>a</sup>

Group/(ml/kg/day) Sex Observation	RL M	/20 F	HSD M	)/12 F	HS M	SD/16 F	HSI M	)/20 F	 HS, M	/12 F
NORMAL THROUGHOUT	0	1	0	0	0	0	0	0	0	0
BEHAVIORAL DISORIENTED INACTIVE TREMORS PACING CIRCLING HYPERACTIVE STAGGERING	0 1 0 0 0	1 0 0 0 0 0 0 0 0	3 3 3 1 0 0	3 2 2 0 1 0	3 3 0 0 0	3 3 1 0 0	2 3 2 0 0 1	3 3 2 1 0 0	3 3 1 1 0 1	3 3 2 0 0 1 0
GENERAL INC. SALIVATION HUNCHED POSTURE EX. THIRST DEC. APPETITE EX. BLEEDING FROM IV SITE	0 0 1 1 0	0 0 0 0	1 2 3 1 0	2 3 1 1 0	3 3 3 2 0	1 2 0	3 1 3 2 0	3 3 2 0	0 2 3 1 0	1 2 2 0 0
SWOLLEN LEG/ EDEMA BLOODY URINE	0	0	0	0	0		0	1	0	0
RESPIRATORY INC. RESP. DEPTH INC. RESP. RATE PANTING CONGESTED	0 0 0	0 0 0	0 1 0 0	2 0 1 0	1 0 0	0	2 0 1 0	2 0 0 0	0 0 1 1	0 0 1 0
GASTROINTESTINAL VOMITING SOFT STOOL DIARRHEA	0 3 0	0 1 0	3 3 0	3 1 1	3 2 0	. 1	3 3 0	3 2 1	3 3 0	3 1 0
OCULAR SQUINTING EYE/NASAL DISCHARGE	0	0	0	0	C		0	1	0	0

 $<sup>^{3}</sup>$  Data presented as number of animals exhibiting the sign with 3 animals of each sex per group.

TABLE 2 (cont.)

Clinical Observations Summary<sup>a</sup>

Group/(ml/kg/day) Sex Observation	HS. M	/16 F	HS M	/20 F	_	D70 <b>M</b>	/12 F	D 7 M	0/1 F	6	D70 <b>M</b>	7/20 F
NORMAL THROUGHOUT	С	0	0	0		0	1	0	0		0	0
BEHAVIORAL DISORIENTED INACTIVE TREMORS PACING CIRCLING HYPERACTIVE STAGGERING	3 3 0 0 0	3 3 2 0 0 0	3 3 3 0 0	3 3 0 0 1 0		2 2 1 0 1 2	2 2 1 0 0 0	2 1 1 0 0 0	2 2 0 0		2 2 2 1 0 0	2 2 3 0 1 0
GENERAL INC. SALIVATION HUNCHED POSTURE EX. THIRST DEC. APPETITE EX. BLEEDING FROM IV SITE	3 3 1 0	3 2 2 0	3 3 3 2 0	3 3 0 0		0 1 1 1	0 1 0 0	0 1 0 2	0 0 0		0 0 0 1 1	0 0 0 0
SWOLLEN LEG/ EDEMA BLOODY URINE	0	0	1	0		0	0	0			0	0
RESPIRATORY INC. RESP. DEPTH INC. RESP. RATE PANTING CONGESTED	2 0 0	1 1 0	1000	1 0 1 1		1 1 2 0	0 0 0	0 0 1 0	0 0 1		0 1 0 2 0	1 0 0 0
GASTROINTESTINAL VOMITING SOFT STOOL DIARRHEA	3 2 0	3 2 0	3 1 0	3 2 0		1 3 0	0 0	2 3 0	2		0 2 0	1 0 0
OCULAR SQUINTING EYE/NASAL DISCHARGE	0	0	0	0		0	0	0			0	0

 $<sup>^{\</sup>rm a}$  Data presented as number of animals exhibiting the sign with 3 animals of each sex per group.

TABLE 3

Group Mean Body Weight (kg)<sup>a</sup>

Group/Dose (ml/kg/day)	WK-3	St WK-2	udy Day WK-1	0	7	14
			Males			
RL / 20	11.45	11.58	11.45	11.33	11.95	11.92
	±0.25	0.37	0.60	0.52	0.71	0.52
	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 12	11.05	11.03	11.27	11.17	11.62	11.83
	±0.48	0.52	0.46	0.50	0.62	0.64
	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 16	11.62	11.55	11.88	11.60	11.83	11.97
	±0.72	0.88	0.94	0.76	0.71	0.61
	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 20	10.28	10.30	10.68	10.57	10.70	10.78
	±0.33	0.32	0.46	0.35	0.32	0.25
	(3)	(3)	(3)	(3)	(3)	(3)
HS / 12	10.82	10.85	11.05	11.23	11.62	11.62
	±0.77	0.80	0.63	0.35	0.57	0.77
	(3)	(3)	(3)	(3)	(3)	(3)
HS / 16	12.70	12.75	12.97	12.75	12.88	13.20
	±1.00	1.15	1.13	0.92	1.13	1.26
	(3)	(3)	(3)	(3)	(3)	(3)
HS / 20	10.32	10.60	10.43	10.77	10.95	11.25
	±0.68	0.60	0.64	0.46	0.63	0.73
	(3)	(3)	(3)	(3)	(3)	(3)
D70 / 12	10.93	11.38	11.90	11.95	11.95	12.92
	±0.81	0.81	0.12	0.20	0.93	1.13
	(3)	(3)	(3)	(3)	(3)	(3)
D70 / <b>16</b>	12.18	12.20	12.00	11.90	12.55	13.03
	±0.81	0.93	0.85	0.95	0.69	0.90
	(3)	(3)	(3)	(3)	(3)	(3)
570 / 20	11.17	11.32	10.67	10.60	11.70	12.02
	±0.55	0.49	0.47	0.46	0.55	0.59
	(3)	(3)	(3)	(3)	(3)	(3)

<sup>&</sup>lt;sup>3</sup> Data are presented as mean i standard error of the mean with the number of animals, n, in parentheses.

TABLE 3 (cont.)

Group Mean Body Weight (kg)<sup>3</sup>

Group/Dos (ml/kg/da		Stud; WK-1	/ Day 0	7	14
	<u>.</u>	Fema	ales		
RL / 20	9.59	9.77	10.18	9.70	9.58
	±0.57	0.49	0.74	0.32	0.45
	(3)	(3)	(3)	(3)	(3)
HSD / 12	10.60	10.72	10.65	10.93	11.20
	±0.51	0.32	0.18	0.60	0.42
	(3)	(3)	(3)	(3)	(3)
HSD / 16	11.17	11.05	11.08	11.15	11.33
	±1.07	0.90	0.78	0.87	1.01
	(3)	(3)	(3)	(3)	(3)
HSD / 20	10.87 ±0.83	10.93 0.91 (3)	10.93 1.04 (3)	10.88 C.71 (3)	11.21 0.66 (3)
HS / 12	10.40	10.50	10.78	10.55	10.62
	±0.00	0.31	0.26	0.28	0.39
	(3)	(3)	(3)	(3)	(3)
HS / 16	10.38	10.23	10.20	10.12	10.20
	±0.36	0.35	0.33	0.32	0.32
	(3)	(3)	(3)	(3)	(3)
ਸ਼ਤ / 20	11.20	11.05	10.80	10.88	11.03
	±0.72	0.71	0.72	0.67	0.79
	(3)	(3)	(3)	(3)	(3)
D70 / 12	10.52	10.22	10.10	10.23	10.28
	±0.48	0.36	0.30	0.42	0.50
	(3)	(3)	(3)	(3)	(3)
D70 / 16	10.68	10.83	10.65	10.90	11.15
	±0.83	0.99	0.75	0.86	1.18
	(3)	(3)	(3)	(3)	(3)
D70 / 20	10.70	10.35	10.27	10.57	10.55
	±0.63	0.56	0.56	0.58	0.48
	(3)	(3)	(3)	(3)	(3)

 $<sup>^{\</sup>rm 3}$  Data are presented as mean  $\pm$  standard error of the mean with the number of animals, n, in parentheses.

TABLE 4

Group Mean Water Consumption (ml/day)

Group/Dose (ml/kg/day)WK-2 WK-1 RL / 20 758 595 ±169 99 (5) (6) HSD / 12 725 684 ±64 92 (4) (6)									
/ 20 758 5 ±169 (5) / 12 725 6	-1 0	1	Study 2	Day 3	4	5	9	7	14
/ 12 725 6	95 737	717	787	(9)	700	627	707	559	724
±64	99 232	195	183	190	172	107	157	107	121
(4)	(6) (6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
	.84 580	1925tv:	14885c	2017ec	1884ta	21096	2136m	2066 <sup>6</sup>	1795E
	92 208	224	268	227	181	200	246	311	140
	(6) (6)	(6)	(6)	(6)	(6)	(5)	(6)	(6)	(6)
HSD / 16 781 676	76 939	2136bc	2476bc	2495tv	2120ter	2147bc	2461 <sup>t-c</sup> 277 (6)	2173t~	2064 <sup>13</sup>
±154 84	34 231	320	357	234	237	135		354	353
(5) (6)	(6) (6)	(6)	(5)	(6)	(6)	(6)		(5)	(6)
HSD / 20 602 613	13 731	1808bc	2088bc	2270bc	1980be	2096ec	2006 <sup>EC</sup>	2485tu	2047 <sup>bs</sup>
±87 67	57 241	121	114	196	123	136	165	211	148
(4) (6)	(6) (6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HS / 12 628 63v	3v 628	1722bc	1434bc	1617bc	1398bc	1704bc	1590bc	1676 <sup>cs</sup>	1575 <sup>to</sup>
±89 121	21 204	156	172	146	94	198	123	133	119
(4) (6	(6) (6)	(6)	(6)	(6)	(5)	(6)	(6)	(6)	(6)

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test. a Data are presented as mean ± standard error of the mean with the number of animals, n, in parentheses. <sup>b</sup> value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

TABLE 4 (cont.)

Group Mean Water Consumption (ml/day)

Group/Dose (ml/kg/day)WK-2	е у) WK-2	WK-1	0	1	Study 2	Day 3	4	5	9	7	14
HS / 16	828	665	575	2099be	1936bc	2136bc	2012bc	1753bc	1853 <sup>bc</sup>	2100bc	1845 <sup>bc</sup>
	±263	91	103	324	242	295	306	224	269	335	218
	(5)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HS / 20	754	574	501	2099tc	2379bc	2288bc	2335bc	2277bc	2368 <sup>15</sup>	2365 <sup>bc</sup>	2320tx
	±182	116	120	256	235	164	237	229	314	287	218
	(4)	(6)	(5)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 12	705	652	682	813ac	836de	703de	798de	849de	763de	768 <sup>de</sup>	883ac
	±93	135	158	144	202	98	123	134	112	123	100
	(4)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 16	871	668	572	668de	1201 <sup>de</sup>	836 <sup>de</sup>	991 <sup>de</sup>	980ac	1313de	820°°	7394e
	±97	152	160	144	257	143	250	242	495	153	153
	(5)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 20	605	431	642	424 <sup>de</sup>	551de	488de	537 <sup>de</sup>	720 <sup>de</sup>	591 <sup>de</sup>	585ac	603de
	±197	97	244	64	213	83	158	213	137	168	145
	(4)	(6)	(6)	(6)	(5)	(6)	(6)	(6)	(6)	(6)	(6)

Data are presented as mean ± standard error of the mean with the number of animals, n, in parentheses.  $^{\rm b}$  Value is significantly different from the group baseline (Day 0) at  ${\rm p}=0.05$  using the Dunnett's test.

c The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test. b

 $^{
m e}$  The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the  $^{
m 3}$ HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test. 14

30.27 5.77 (6)

TABLE

		m O -
	7	30.58 5.80 (6)
	m	32.47 5.05 (6)
mary	2	e (U/1) 32.37 7.17 (6)
Serum Chemistry Summary	Study Day	Alanine Aminotransferase (U/1) 29.53 36.83 32.37 7.30 9.16 7.17
rum Chem	St.	line Amino 29.53 7.30 (6)
Se	-7	Alan 28.87 8.96 (6)
	q <b>O</b>	30.03 ±6.09 (6)
	Group/Dose (ml/kg/day)	RL / 20

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses. b Prequarantine sample.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	Q.	L-	0	Study Day 1	2	m	7	14
			Alanine Am	Alanine Aminotransferase (U/1)	se (U/1)			
HSD / 12	45.80 ±38.44 (6)	26.17 8.24 (6)	26.18 8.08 (6)	72.37 <sup>t i</sup> 65.83 (6)	57.75 <sup>t i</sup> 42.96 (6)	53.93 <sup>11</sup> 34.42 (6)	37.37 <sup>11</sup> 22.02 (6)	26.37 <sup>ti</sup> 10.02 (6)
HSD / 16	24.50 ±10.08 (6)	25.90 7.05 (6)	24.55 3.40 (6)	88.65°fi 37.57 (6)	78.40cfi 31.39 (6)	72.72 <sup>cfi</sup> 32.56 (6)	54.55 <sup>f1</sup> 28.96 (6)	48.45fi 35.54 (6)
HSD / 20	33.08 ±7.50 (6)	26.15 3.29 (6)	26.88 2.66 (6)	130.65 <sup>cfgh</sup> 85.40 (6)	141.37cfgh 85.70 (6)	126.57cfgh 65.83 (6)	99.48 <sup>fqh</sup> 87.23 (6)	68.08 <sup>19</sup> 1.34.11

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

m The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the Value is significantly different from the group baseline (Day 0) at p=0.05 using the Dunnett's test. HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	å	L-	0	Study Day 1	2	3	7	14
			Alanine Am	Alanine Aminotransferase	se (U/1)			
HS / 12	52.98 ±52.62 (6)	27.32 6.96 (6)	29.08 6.30 (6)	67.97 <sup>t i</sup> 78.21 (6)	56.42fi 53.76 (6)	47.55 <sup>ti</sup> 37.62 (6)	35.97 <sup>ti</sup> 15.70 (6)	42.85 <sup>fi</sup> 18.26 (6)
HS / 16	57.10 ±67.21 (6)	24.22 5.88 (6)	22.60 5.66 (6)	80.48cfi 40.77 (6)	68.57 <sup>ct i</sup> 32.60 (6)	55.13 <sup>(i)</sup> 22.67 (6)	52.08 <sup>11</sup> 41.59 (6)	37.12 <sup>13</sup> 19.40 (6
HS / 20	43.90 ±29.51 (6)	28.32 7.84 (6)	28.20 9.42 (6)	193.83fgh 241.06 (6)	151.37 <sup>fqB</sup> 172.61 (6)	189.00 <sup>tqh</sup> 154.83 (6)	112.85 <sup>19b</sup> 90.07 (6)	100.78 <sup>146</sup> 81.84 (6)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses

b Prequarantine sample.

 $\sim$ The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

m

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at  $p\approx 0.05$  using the Student-Newman-Keuls multiple range test.

D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at  $p \approx 0.05$  using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	ą <b>o</b>	L-	0	Study Day	5	Э	7	14
			Alanine Am	Alanine Aminotransferase (U/l)	se (U/1)			
D70 / 12	27.48 ±6.68 (6)	32.93 25.61 (6)	29.95 13.11 (6)	23.52 <sup>dei</sup> 3.98 (6)	25.32dei 5.41 (6)	25.55dei 4.25 (6)	22.42 <sup>de i</sup> 4.79 (6)	23.92dei 5.99 (6)
D70 / 16	49.68 ±28.59 (6)	29.98 9.22 (6)	27.30 7.03 (6)	26.48 <sup>dei</sup> 5.37 (6)	25.28 <sup>de j</sup> 5.00 (6)	24.45 <sup>dei</sup> 5.28 (6)	21.90caci 3.79 (6)	20.13°det 3.67 (6)
D70 / 20	40.38 ±21.54 (6)	26.08 4.81 (6)	24.45 3.09 (6)	30.32 <sup>de-gh</sup> 17.03 (6)	31.10 <sup>deqh</sup> 22.29 (6)	30.67degh 20.02 (6)	30.07 <sup>argn</sup> 26.22 (6)	27,30 <sup>ch-gh</sup> 25,68 (6)

d Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses

b Prequarantine sample.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the c Value is significantly different from the group baseline (Day 0) at p=0.05 using the Dunnett's test. HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

7 14		26.48 27.90 5.43 4.88 (6) (6)	90.25ce 90.43ce 12.46 8.55 (6) (6)	89 10° 94.12° 15.29 19.79 (6) (6)	17.16 12.31 (6) (6)	27.35 <sup>df</sup> 32.18 <sup>df</sup> 6.59 5.71 (6) (6)
3		35.13 21.99 (6)	98.83cef 18.88 (6)	121.40et 69.94 (6)	130.53ce) 24.15 (6)	25.87 <sup>af</sup> 3.97 (6)
2	rase (U/l)	31.02 18.79 (6)	94.88cet 24.78 (6)	136.33et 97.53 (6)	155.15cef 58.04 (6)	26.30 <sup>df</sup> 4.11 (6)
Study Day 1	Aminotransferase	27.67 4.82 (6)	92.52cef 43.12 6)	108.77ef 30.39 (6)	168.12cef 107.45 (6)	29.20 <sup>df</sup> 5.60 (6)
0	Aspartate A	30.17 7.09 (6)	28.35 5.46 (6)	28.67 7.67 (6)	32.67 5.04 (6)	30.35 4.74 (6)
L-	4	27.80 10.66 (6)	30.37 4.88 (6)	28.73 10.32 (6)	30.18 3.68 (6)	29.58 4.82 (6)
qŌ		27.48 ±6.23 (6)	50.03 ±35.51 (6)	26.92 ±14.27 (6)	30.72 ±6.80 (6)	42.07 ±23.92 (6)
Group/Dose (ml/kg/day)		RL / 20	HSD / 12	HSD / 16	HSD / 20	HS / 12

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

 $\sim$  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the 'Sudent-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test. e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

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TABLE 5 (cont.)

### Serum Chemistry Summary

Group/Dose (ml/kg/day)	90 (	L-	0	Study Day 1	2	٣	7	14
		As	spartate Ar	Aspartate Aminotransferase	ase (U/1)			
HS / 16	39.07	30.17	30.48	31.48 <sup>df</sup>	26.73 <sup>dt</sup>	26.38 <sup>dt</sup>	36.62 <sup>dt</sup>	30.75 <sup>dt</sup>
	±36.77	4.33	12.65	5.30	5.14	6.98	17.70	4.10
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HS / 20	36.67	30.72	31.02	40.22 <sup>dt</sup>	30.70 <sup>dt</sup>	30.25 <sup>df</sup>	32.15 <sup>at</sup>	32.55 <sup>d1</sup>
	±15.71	9.36	7.11	18.36	8.34	5.24	3.84	9.14
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 12	29.92	26.35	28.45	67.37ced	86.82 <sup>ced</sup>	85.95 <sup>ced</sup>	84.18°°°	90.65°°
	±2.71	4.37	6.50	11.70	12.95	10.61	9.71	7.35
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 16	41.87	31.42	29.27	67.98 <sup>ced</sup>	85.35ced	93.97ced	99.33cc	100.03ce
	±13.97	9.73	4.35	5.59	2.56	1.83	6.84	12.34
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 20	34.82	22.47	27.47	70.68 <sup>ced</sup>	82.68 <sup>ced</sup>	92.50 <sup>ced</sup>	89.45°°	98.55°°
	±11.35	5.60	7.78	19.26	36.47	28.94	32.17	25.63
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses b Prequarantine sample.

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	٩٥	L-	0	Study Day 1	2	ю	7	14
			Alkaline	Phosphatase	e (U/1)			
RL / 20	66.78 ±20.04	62.42 24.85	62.60 24.65	61.98	83.53	84.95	60.42	58.75 22.56
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 12	70.03	65.85	60.25	157.07 e	205.33ce	220.77ce	190.22°E	154.22°e
	±10.04 (6)	6.27	8.51 (6)	34.62 (6)	55.77 (6)	55.81	45.58 (6)	39.26 (6)
HSD / 16	56.27	48.77	49.18	137.87ce	176.77ce	188.90ce	163.000	136.28°°
	19.84 (6)	(9)	(9)	30.80	(6)	(6)	(6)	(6)
HSD / 20	52.63 ±8.86	47.63	48.60	145.33ce 28.26	189.83ce 47.85	195.62ce 45.42	162.13°°° 36.04	118.52°e 22.27
	(9)		(9)	(9)	(9)	(9)	(9)	(9)
HS / 12	75.38	70.33	66.38	71.02 <sup>dt</sup>	65.80 <sup>dt</sup>	66.62 <sup>dt</sup>	61.20 <sup>dt</sup>	58.18 <sup>4</sup> f
	(6)	(6)	(9)	(6)	(6)	(6)	(6)	(6)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3  $^{\rm c}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test HSD dose groups at  $p \approx 0.05$  using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

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f The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

HS / 16 74.37	,	0	 	2	m	7	14
		Alkaline	Phosphatase	e (U/1)			
(9)	7 65.73	64.73	66.67 <sup>dt</sup>	62.65 <sup>41</sup>	61.60 <sup>41</sup>	76.57 <sup>d1</sup>	56.18 <sup>df</sup>
	3 13.43	21.01	24.12	19.13	16.71	42.82	19.35
	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HS / 20 57.22	2 51.23	53.50	59.90 <sup>df</sup>	57.43 <sup>41</sup>	56.15 <sup>d1</sup>	53.20 <sup>d1</sup>	48.27 <sup>d1</sup>
±8.29	9 6.43	7.38	15.36	14.59	14.12	8.77	17.32
(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 12 56.15	5 58.55	54.88	155.72cc	217.87°°°	224.98	174.15"	136.72°°
±16.71	1 15.91	14.25	61.90	73.18	80.91	58.96	52.39
(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 16 62.80	51.92	54.08	159.22ce	203.45°°	221.18°°°	174.65°°	128.83···
±12.33	3 10.12	8.41	33.15	38.97	51.58	29.49	33.93
(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 20 70.33	3 57.55	56.28	140.65 <sup>ce</sup>	177.58ce	184.53 ce	137.52°°°	98.33***
±10.51	1 13.21	12.58	30.56	43.40	43.71	24.03	22.46
(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses. b Prequarantine sample.

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	ose lay)	ą <b>O</b>	L-	0	Study Day 1	2	æ.	7	14
				Lactate 1	Lactate Dehydrogenase	se (U/1)			
RL / 20		196.15 ±109.09 (6)	145.48 127.48 (6)	197.73 153.11 (6)	139.28 44.66 (6)	91.10 38.28 (6)	137.15 98.60 (6)	133.33 64.86 (6)	188.62 132.34 (6)
HSD / 12		187.75 ±105.09 (6)	122.32 38.63 (6)	136.47 76.38 (6)	89.17 44.06 (6)	99.02 33.71 (6)	104.82 55.70 (6)	73.35e 37.55 (6)	154.32° 67.65 (6)
HSD / 16	16	202.08 ±93.97 (6)	159.32 158.43 (6)	153.95 116.77 (6)	93.18 52.44 (6)	87.27 32.45 (6)	108.15 84.44 (6)	131.97 <sup>e</sup> 125.00 (6)	186.47° 203.19 (6)
HSD / 5	20	121.83 ±50.03 (6)	96.30 22.04 (6)	137.37 49.03 (6)	130.93 47.69 (6)	85.22 39.55 (6)	91.63 59.18 (6)	70.88° 21.42 (6)	191.77" 89.55 (6)
HS / 12	12	134.60 ±38.86 (6)	136.92 77.50 (6)	137.70 56.41 (6)	121.77 50.15 (6)	116.88 63.33 (6)	109.98 48.58 (6)	161.42 <sup>d1</sup> 81.63 (6)	219.80cdt 74.28 (6)

 $^{\mathsf{a}}$  Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

m d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

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The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	e Qb	L-	0	Study Day 1	2	3	7	14
			Lactate	Lactate Dehydrogenase	se (U/1)			
HS / 16	180.38	136.38	136.15	142.42	102.83	114.58	136,97 <sup>43</sup> 82,66	214.90 <sup>dt</sup>
	(9)	• ~	(9)	(9)	(9)	(9)	(9)	(9)
HS / 20	127.93	180.13	129.67	127.58	123.28	120.42	152.854	231.674
	±83.46		61.26	61.62	103.04	79.98	74.52	109.94
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 12	208.32	121.80	132.33	143.28	128.47	87.47	103.97	191.205
	±101.68	58.69	108.70	104.71	51.22	41.36	40.27	131.75
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 16	143.25	136.80	128.95	97.55	74.73	80.28	98.57	158.47
	154.68	117.32	37.39	65.55	21.87	33.51	83.71	98.03
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20	157.57	125.67	198.88	161.03	103.47	77.60	67.40°	111.40
	±91.65	102.52	148.71	175.80	103.33	38.35	30.96	40.04
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

a Data are presented as the mean t the standard deviation with the number of animals, n, in parentheses Prequarantine sample. ۵

 $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the

<sup>f</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose				Study Day	;			
(ml/kg/day)	đ	۲-	0		2	m	7	14
		Gamma	Glutamyl	Transpeptidase	lase (U/1)			
RL / 20	4.57	5.63	4.30	3.40	3.48	3.63	3.65	9.
	±1.76	6.32	1.76	3.21	1.96	2.26	1.81	1.55
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 12	2.93	4.87	2.68	4.43	4.35	4.18	5.22	5.53
	±1.97	4.52	1.53	2.22	1.41	1.34	1.16	1.78
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 16	3.60	3.62	•	4.30	4.27	4.67	5.17	5.42
	±1.24	1.68	2.62	1.65	2.47	1.64	2.63	0.85
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 20	3.97	5.88	3.62	4.25	4.30	5.22	7.20	6.67
	±1.91	4.58	0.91	1.72	3.02	2.36	3.00	3.33
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 12	3.85	5.18	2.78	. 2	3.76	4.30	4.07	•
	±1.61	4.25	1.24	2.35	0.91	1.29	1.35	1.38
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

 $^{\rm a}$  Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses  $^{\rm b}$  Prequarantine sample.

TABLE 5 (cont.)

Serum Chemistry Summary

1 1 1 1 - 1			Study	idy Day				
(mı/kg/day)	φŌ	L-7	0	-	2	m	7	14
		Gamma	Glutamyl T	Transpeptidase	lase (U/1)			
HS / 16	3.42	3.68	3.00	•	2.77	2.53	3.25	4.03
	±2.08	1.15	1.83	1.78	1.63	1.58	1.79	1.53
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 20	4.47	5.00	4.68	5.45	5.42	4.77	5.75	5.08
	±1.00	4.97	0.68	3.69	•	4.17	4.40	3.06
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 12	4.47	7.48	4.10	4.27		5.05	5.65	6.03
	±0.92	3.93	2.14	2.71	1.34	2.28	1.74	1.42
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 16	3.68	5.95	•	4.97	4.35	•	4.22	5.37
	±1.58	4.51	1.50	2.08	1.18	1.33	1.80	2.07
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20	5.12	•	4.33	•	•	5.70	6.13	•
	±1.57	4.66	06.0	3.60	1.45	2.09	2.85	2.91
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses. D Prequarantine sample.

TABLE 5 (cont.)

Serum Chemistry Summaryd

(mil/kg/day)	å	L-1	. st	Study Day 1	2	Ж	<i>l.</i>	14
			Creatine Phosphokinase	osphokinas	e (U/1)			
RL / 20	221.00	296.03	294.26	165.67	355.25	144.28	198.10	173.10
	±84.54	409.04	252.44	59.92	95.24	60.85	139.51	79.08
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 12	489.32	196.08	235.16	138.07	163.93	142.47	115.92	182.49
	±664.82	81.37	111.08	39.12	84.09	40.06	49.02	65.84
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 16	357.59	223.84	308.66	141.31	180.32	127.75	158.93	136.25
	±309.40	202.55	358.55	52.63	186.80	71.87	134.64	110.72
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 20	245.73	195.45	195.25	320.16	144.28	123.01	103.71	241.39
	±150.72	78.24	41.52	225.87	46.42	42.76	25.58	135.39
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HS / 12	235.56	187.46	263.64	155.97	148.22	136.02	169.64	227.05
	±131.74	87.07	183.48	50.82	86.52	42.55	88.70	40.98
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Prequarantine sample.

TABLE 5 (cont.)

Serum Chemistry Summary

(ml/kg/day)	φÖ	-7	0	oracy pay	2	æ	7	14
		0	Creatine Phosphokinase	osphokinas	e (U/1)			
HS / 16	215.33	238.85	262.94	206.86	157.10	163.32	191.05	238.26
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 20	228.75	257.50	334.03	201.73	184.57	162.84	242.94	237.68
	±106.18	61	248.92	93.31	137.29	88.93	112.05	64.67
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 12	270.43	201.12	267.36	226.11	148.73	141.21	129.28	172.28
	±100.83	95.96	267.75	157.10	54.19	97.84	23.03	(9.81
	(9)	(9)	(9)	(9)	(9)	(9)		(9)
D70 / 16	248.04	287.11	214.54	172.37	120.90	144.82	153.60	156.31
	±103.54	344.03	73.33	74.16	15.92	66.44	60.88	50.80
	(9)	(9)	(9)	(9)	(9)	(9)		(9)
D70 / 20	300.12	131.18	227.27	202.86	132.89	103.77	86.39	121.95
	±216.49	75.79	186.59	201.57	120.07	45.79	40.16	55.36
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses. <sup>b</sup> Prequarantine sample.

5 (cont.) TABLE

Summary
Chemistry
Serum

Group/Dose	d d			Study Day	C	C		
(m1/kg/day)	ò	) -	0	,	7		-	14
			Total Bili	Total Bilirubin (mg/dl)	dl)			
RL / 20	0.00	00.0	0.00	00.0	00.00	00.00	0.00	0.00
	∓0.00	00.00	00.00	00.0	00.0	00.0	00.00	00.00
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 12	00.0	00.00	0.00	00.00	00.00	00.00	0.00	00.00
	+0.00	00.00	00.0	00.00	00.00	00.00	00.0	00.00
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 16	0.00	0.00	00.0	00.00	00.00	00.00	0.00	00.00
	∓0.00	00.00	00.00	0.00	00.00	0.00	00.0	00.00
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 20	00.0	00.0	0.11	00.00	00.00	00.00	0.02	0.01
	∓0.00	00.0	0.17	00.0	00.00	00.00	0.05	0.03
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 12	0.00	0.00	0.00	00.00	00.00	00.00	0.00	0.01
	00.0∓	00.0	00.0	00.0	00.0	00.0	00.0	0.03
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

 $^{a}$  Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.  $^{b}$  Prequarantine sample.

TABLE 5 (cont.)

Serum Chemistry Summary

Group/Dose				Study Day				
(ml/kg/day)	ĝ.	۲-	0		2	س		14
			Total Bili	Total Bilirubin (mg/dl)	(dl)			
HS / 16	0.00	00.00	00.00	00.00	00.00	00.00	00.00	0.01
	00.0∓	00.0	00.00	00.0	00.0	00.00	00.00	0.01
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 20	0.01	00.00	0.10	00.0	00.0	00.00	0.05	0.01
	±0.02	00.00	0.18	00.0	00.00	00.00	0.12	0.03
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 12	0.00	0.00	00.00	0.00	00.00	00.00	00.00	00.00
	+0.00	00.00	00.00	00.0	00.00	00.00	00.00	07.0
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	( <del>0</del> )
070 / 16	00.00	00.00	0.01	0.01	00.0	00.00	00.0	00.00
) )	00.0∓	00.00	0.03	0.01	00.00	00.00	00.00	00.00
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20	0.00	0.00	00.00	0.00	00.00	00.00	0.01	00.00
	40.00	00.0	00.0	00.0	00.0	00.0	0.02	0.00
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses. <sup>b</sup> Prequarantine sample.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	q <b>o</b>	۲-	0	Study Day 1	2	ю	7	14
			Chol	Cholesterol (mg/dl)	/dl)			
RL / 20	209.73 ±41.76 (6)	175.02 39.20 (6)	172.45 46.25 (6)	165.87 36.18 (6)	172.75 36.46 (6)	168.57 34.55 (6)	27.49 (6)	234.40 77.30 (6)
HSD / 12	204.48	189.80	175.28	161.58	156.75°	145.72e	113.60°	137.85¢
	±34.72	36.11	40.98	39.19	43.92	33.17	28.03	86.78
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 16	190.53	173.68	165.47	150.77	139.30ce	136.00 <sup>ce</sup>	107.83 cc	93.73.°
	±21.17	16.48	15.00	20.91	20.76	17.34	25.28	28.10
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 20	214.43	176.02	176.85	164.38	142.52ce	138.78ce	101.50°°	104.03ce
	±35.07	12.96	8.84	16.69	14.60	19.99	22.16	38.11
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HS / 12	197.63	174.53	164.57	164.63	168.08 <sup>d1</sup>	175.42 <sup>dt</sup>	170.13 <sup>df</sup>	226.10 <sup>df</sup>
	±47.27	48.43	48.90	35.91	37.33	40.35	28.84	94.64
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses

b Prequarantine sample.

m d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the  $^{\rm c}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	qσ	۲-	0	Study Day	2	en	7	14
			Chole	Cholesterol (mg/dl)	/dl)			
HS / 16	191.20 ±31.37 (6)	161.88 18.16 (6)	156.53 19.69 (6)	163.48 21.87 (6)	163.98 <sup>df</sup> 21.07 (6)	170.43 <sup>df</sup> 28.21 (6)	170.88 <sup>41</sup> 24.70 (6)	195.53 <sup>df</sup> 50.62 (6)
HS / 20	206.20 ±30.36 (6)	185.20 33.68 (6)	181.92 36.15 (6)	182.35 21.41 (6)	186.97 <sup>d1</sup> 28.71 (6)	186.93 <sup>df</sup> 32.59 (6)	197.93 <sup>41</sup> 18.83 (6)	264.55 <sup>df</sup> 93.63 (6)
D70 / 12	194.88 ±38.09 (6)	167.37 39.19 (6)	160.32 43.01 (6)	148.27 37.76 (6)	143.48° 36.79 (6)	131.65° 37.29 (6)	105.77° 29.63 (6)	115.17° 51.39 (6)
D70 / 16	190.17 ±24.50 (6)	169.83 22.54 (6)	169.60 33.01 (6)	148.77 37.60 (6)	132.35ce 34.63 (6)	123.40 · · · 30.33 (6)	92.28 <sup>ce</sup> 19.20 (6)	86.85.°° 42.91 (6)
D70 / 20	181.43 ±24.96 (6)	162.77 27.44 (6)	163.47 22.74 (6)	140.33 23.04 (6)	119.08ce 17.95 (6)	110.02 ce 17.59 (6)	83.35 <sup>ce</sup> 15.40 (6)	80.60°°° 17.56 (6)

a Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses

b Prequarantine sample.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the Value is significantly different from the group baseline (Day 0) at p=0.05 using the Dunnett's test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	qŌ	L-7	0	Study Day 1	7	m	7	14
			Triglyceride	ride (mg/dl)	- Males			
RL / 20	49.3	42.7	41.3	39.0	59.0	55.0	60.0	59.7
	±16.5	10.0	23.1	11.5	21.1	16.8	27.6	10.1
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 12	50.7	51.0	41.3	43.0	52.0	50.7 <sup>t</sup>	37.0e	56.0°
	±17.5	1.7	12.5	21.1	10.5	6.0	9.5	26.2
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 16	38.0	36.0	37.3	37.7	41.7	53.7:	32.3°	33.3°
	±12.1	7.5	11.8	24.0	4.0	18.2	12.1	10.5
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 20	60.7	41.0	40.0	47.3	55.0	45.0 <sup>1</sup>	37.3e	38.3°
	±17.0	8.2	9.8	20.5	17.7	14.0	11.1	2.5
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
нѕ / 12	53.3	48.0	45.7	53.0	71.3°	58.3cf	57.7 <sup>df</sup>	61.3 <sup>cd1</sup>
	±6.4	9.8	9.1	8.0	14.6	13.1	13.8	11.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

ᠬ d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the c Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test. HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

 $\sim$ 

TABLE 5 (cont.)

### Serum Chemistry Summary

Group/Dose (ml/kg/day)	ąO	L-	0	Study Day 1	2	m	7	14
			Triglyceride	ide (mg/dl)	- Males			
нз / 16	68.7 ±11.2	41.7	26.7	39.7 10.3 (3)	54.7 16.8 (3)	68.0cf 18.3 (3)	54.0cdf 10.8 (3)	67.3cdf 2.1 (3)
HS / 20	34.0 ±5.3	44.0	40.0	45.7 18.9	54.3 14.5	61.3ct 24.2	58.3°dt 17.0	66.3cat 18.1 (3)
D70 / 12	(3) 33.7 ±8.1 (3)	40.7 3.8 (3)	35.7 6.7 (3)	42.3 11.5 (3)	47.3 7.6 (3)	38.7 <sup>de</sup> 0.6 (3)	41.7° 9.3 (3)	36.3° 3.8 (3)
D70 / 16	37.7 ±2.5 (3)	38.3 8.4 (3)	38.3 6.7 (3)	40.0 20.3 (3)	63.7 30.1 (3)	41.0ae 5.2 (3)	30.0° 8.7 (3)	28.7° 7.4 (3)
D70 / 20	48.7 ±8.5 (3)	46.0 9.6 (3)	36.7 3.8 (3)	36.3 8.4 (3)	36.3 12.3 (3)	29.7 <sup>de</sup> 6.4 (3)	30.0° 12.1 (3)	26.0° 2.6 (3)

 $^{
m a}$  Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

m <sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

m The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	ð	L-	0	Study Day 1	2	m	7	14
			riglyceride	de (mg/dl)	- Females			
RL / 20	43.0	49.3	49.3	56.7	46.7	57.0	55.7	70.0
	±23.6	28.4	35.6	24.1	16.0	40.4	8.3	21.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 12	50.7	51.7	35.3	75.0	32.7 <sup>t</sup>	48.3ef	39.0°	62.3ct
	±27.2	19.5	13.3	43.8	2.1	10.2	10.6	49.9
	(3)	(3)	(3)	(2)	(3)	(3)	(3)	(3)
HSD / 16	42.3	56.7	48.7	41.0	61.0¹	59.0 <sup>ct</sup>	41.3°	30.3 <sup>c4</sup>
	±17.6	4.7	5.5	23.6	31.0	18.7	5.1	3.8
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 20	59.0 ±18.2 (3)	51.7 7.4 (3)	46.7 30.0 (3)	44.0 29.2 (3)	56.3 <sup>1</sup> 22.7 (3)	43.7e1 8.0 (3)	39.3° 15.5 (3)	30.0 <sup>c-t</sup> 7.9 (3)
HS / 12	63.7	67.3	32.7	43.0	64.3ct	64.0 <sup>cdt</sup>	51.7 <sup>dt</sup>	58.3 <sup>cat</sup>
	±21.7	31.0	13.9	23.9	13.3	12.5	5.0	10.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)

a Data are presented as the mean time standard deviation with the number of animals, n, in parentheses.

Prequarantine sample.

ᠬ d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the  $^{\rm c}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

ന f The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose				Study Day				
(ml/kg/day)	aO (	-7	0		2	~	_	14
			Triglyceride	.de (mg/dl)	- Females			
HS / 16	44.7		54.3	61.0	66.31	99.7cdf	70.7cdt	75.3cdf
	±13.3	30.8	5.7	13.0	17.5	10.3	22.2	20.3
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HS / 20	65.0	61.3	39.7	42.0	60.7	68.3cdf	82.3cdf	64.3cdf
	±19.2		2.1	24.3	20.1	14.6	16.1	6.6
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
D70 / 12	44.7	46.0	45.7	32.0	$31.0^{\mathrm{de}}$	34.7de	$30.0^{e}$	24.7de
•	48.6	9.6	17.6	14.2	5.3	3.5	8.7	9.3
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
D70 / 16	64.7	33.0	28.0	29.7	27.0de	28.3de	27.0e	18.3de
	±11.9	7.2	6.1	7.0	9.0	12.7	8.0	1.2
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
D70 / 20	40.0	39.0	55.7	58.5	26.0 <sup>de</sup>	29.0de	23.0e	20.3de
	±6.1	12.1	12.9	14.8	10.4	12.3	11.3	6.7
	(3)	(3)	(3)	(2)	(3)	(3)	(3)	(3)

a Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p=0.05 using the Dunnett's test. HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

f The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	Qb	۲-	0	Study Day	2	æ	7	14
			Uric	Acid (mg/dl)	1)			
RL / 20	0.20	0.35	0.10	0.20	0.17	0.18	0.68°	0.72 <sup>d</sup>
	±0.11	0.62	0.06	0.09	0.10	0.10	0.83	0.77
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 12	0.20	0.07	0.35	0.13	0.15	0.12	0.58	0.35
	±0.09	0.12	0.62	0.15	0.12	0.15	0.79	0.57
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 16	0.28	0.35	0.35	0.13	0.17	0.18	0.38	0.67
	±0.19	0.62	0.63	0.15	0.05	0.10	0.66	0.85
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
нѕр / 20	0.28	0.37	0.40	0.18	0.18	0.13	0.63	0.47
	±0.08	0.62	0.60	0.12	0.12	0.14	0.80	0.63
	.6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HS / 12	0.35 ±0.20 (6)	0.15 0.14 (6)	0.43 0.58 (6)	0.15 0.15 (6)	0.18 0.12 (6)	0.17 0.15 (6)	0.73	0.33

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

 $^{c}$  Male group value  $^{3}$  significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>d</sup> Female group value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

TABLE 5 (cont.)

Serum Chemistry Summary

Group/Dose (ml/kg/day)	qŌ	L-	0	Study Day	2	3	7	14
			Uric	Acid (mg/dl)	1)			
HS / 16	0.32 ±0.12	0.37	0.38	0.15	0.18	0.22 0.18 (6)	0.47	0.72 0.88 (6)
	(0)	(0)	(0)	(0)	(0)	()		6
HS / 20	0.23 ±0.10 (6)	0.32 0.63 (6)	0.30 0.64 (6)	0.18 0.10 (6)	0.18 0.10 (6)	0.17 0.10 (6)	0.68 0.76 (6)	0.42 0.65 (6)
D70 / 12	0.32 ±0.21 (6)	0.12 0.13 (6)	0.40 0.60 (6)	0.18 0.12 (6)	0.20 0.14 (6)	0.17 0.14 (6)	0.70 0.75 (6)	0.45 0.67 (6)
D70 / 16	0.32 ±0.08 (6)	0.33 0.63 (6)	0.15 0.12 (6)	0.17 0.08 (6)	0.15 0.10 (6)	0.10 0.11 (6)	0.42 0.63 (6)	0.67 0.93 (6)
D70 / 20	0.25 ±0.18 (6)	0.35 0.62 (6)	0.30 0.64 (6)	0.15 0.12 (6)	0.10 0.11 (6)	0.10 0.11 (6)	0.58 0.75 (6)	0.33 0.63 (6)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses. <sup>b</sup> Prequarantine sample.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	qΟ	L-	St.	Study Day 1	5	ю	7	14
			Total Pr	Protein (g/dl)	1)			
RL / 20	6.03	5.88	6.06	5.84	5.87	5.70	5.95	5.92
	±0.12 (6)	(9)	. —	(9)	(9)	(6)	9)	. —
HSD / 12	5.93	5.83	5.93	5.76	5.92	5.80	•	5.68
	±0.52	0.37	. 5	0.53	0.63	0.91	1.29	1.28
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 16	6.33	•	5.98	5.98	6.02	6.08		. 5
	±0.35	0.54	•	0.78	1.17	•	1.51	2.16
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 20	6.17	•	5.90	6.16	6.05	•	•	Т.
	±0.57	09.0	0.37	1.00	1.22	1.66	1.86	1.49
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 12	6.07	5.76	5.84	5.74	5.94	5.80	5.89	6.08
	±0.54	0.34	0.45	0.27	0.50	0.40	0.52	•
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

 $^{\rm a}$  Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.  $^{\rm b}$  Prequarantine sample.

TABLE 5 (cont.)

Serum Chemistry Summary

Group/Dose			Sti	Study Day				
(ml/kg/day)	<sub>q</sub> ⊘	-7	0	-1	2	3	7	14
			Total Pr	Protein (g/dl)	1)			
HS / 16	6.05		7.	•		6.07	6.12	
	±0.44	0.40	0.23	0.31	0.39	0.40	0.36	0.34
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 20	5.87	•	5.83		•	5.81	5.99	6.20
	±0.45	0.27	0.23	0.47	0.62	0.33	0.52	0.44
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 12	5.98	•	•	•	•	5.66	5.71	
	$\pm 0.61$	0.27	0.24	0.75	1.23	96.0	1.56	1.58
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 16	5.75	•	•	9.	•	5.71	•	•
	±0.63	09.0	0.52	0.86	1.19	1.33	1.94	2.10
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20	5.85	•	•	6.	•	5.87	6.04	6.03
	±0.36	0.65	0.55	0.93	1.27	1.23	1.96	1.64
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

<sup>a</sup> Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses. <sup>b</sup> Prequarantine sample.

TABLE 5 (cont.)

<pre>Group/Dose (ml/kg/day)</pre>	qÕ	۲-	0	Study Day 1	2	æ	7	14
			Alk	Albumin (g/dl)				
RL / 20	3.15	3.25	3.40	3.22	3.32	3.08	3.38	3.33
	±0.29	0.32	0.28	0.23	0.33	0.23	0.21	0.38
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 12	3.17	3.27	3.18	2.90e	2.82°°°	2.80ce	2.53cc	2.40°°°
	±0.33	0.21	0.15	0.32	0.33	0.15	0.31	0.22
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 16	3.43	3.43	3.38	3.08 <sup>ce</sup>	2.90cm	2.73cc	2.77.°	2.62°°°
	±0.08	0.36	0.16	0.25	0.21	0.12	0.28	0.23
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 20	3.43	3.20	3.37	3.10 <sup>e</sup>	2.77 <sup>ce</sup>	2.70ce	2.42 cc	2.15°°
	±0.32	0.32	0.23	0.30	0.18	0.22	0.32	0.15
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
нѕ / 12	3.33	3.43	3.48	3.30 <sup>df</sup>	3.30 <sup>dt</sup>	3.30 <sup>df</sup>	3.33 <sup>41</sup>	3.53 <sup>df</sup>
	±0.33	0.29	0.32	0.26	0.28	0.38	0.19	0.25
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

a Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses

b Prequarantine sample.

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

3

<sup>f</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Fuse (ml/kg/day)	φŌ	r-	0	Study Day 1	2	က	ľ.	14
			Alk	oumin (q/dl)				
HS / 16	3.37	5.38	3.25	3.38 <sup>ut</sup>	3.28 <sup>41</sup>	3.35 <sup>d1</sup>	3.42 <sup>3</sup> :	3.55 <sup>df</sup>
	±0.39	0.37	0.27	0.29	0.23	0.24	0.19	0.39
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HS / 20	3.45	3.37	3.55	3.43 <sup>41</sup>	3.38 <sup>91</sup>	3.42 <sup>41</sup>	3.55 <sup>41</sup>	3.67 <sup>41</sup>
	±0.10	0.21	0.31	0.27	0.31	0.16	0.33	0.30
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 12	3.23	3.43	3.48	3.12°	2.95°°	2.80°°	2.57°°	2.48°°°
	±0.30	0.27	0.33	0.25	0.19	0.33	0.14	0.17
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 16	3.32	3.20	3.30	2.92ct	2.62···	2.60°E	2.40°°°	2.07°°
	±0.35	0.29	0.20	0.37	0.19	0.43	0.26	0.22
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 20	3.42	3.30	3.37	2.87ce	2.50cc	2.47cc	2.37 <sup>cr</sup>	2.10°°
	±0.21	0.20	0.22	0.16	0.35	0.20	0.21	0.21
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

Prequarantine sample.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test. HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 5 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is a gnificantly different from the mean of the 3 P70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

<pre>iroup/Dose (ml/kg/day)</pre>	Qp	Ĺ-	0	Study Day 1	2	m	7	14
			Albumin	/Globulin F	Ratio			
RL / 20	1.13	1.26	1.36	1.26	1.36	1.19	1.33	1.32
	±0.28	0.27	0.38	0.26	0.41	0.23	U.18	0.32
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 12	1.18	1.30	1.17	1.08	0.89¢	0.99°	0.80°	0.85°
	±0.19	0.22	0.16	0.30	0.16	0.31	0.21	0.38
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 16	1.20	1.45	35	1.17	1.02ce	0.97 <sup>cv</sup>	0.93°°	0.83°¢
	±0.21	0.31	0.26	0.40	0.32	0.45	0.33	0.37
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 20	1.30	1.21	1.34	1.08°	0.92cc	0.87°e	0.72°°°	0.63ce
	±0.32	0.17	0.19	0.31	0.32	0.33	0.29	0.23
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HS / 12	1.25 ±0.27 (6)	1.48 0.23 (6)	1.52 0.34 (6)	1.38 0.30 (6)	1.28 <sup>dt</sup> 0.17 (6)	1.34 <sup>dt</sup> 0.31 (6)	1.37 <sup>d!</sup> 0.22 (6)	1.45 <sup>d1</sup> 0.29 (6)

a Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

 $^{
m d}$  The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at  $p \approx 0.05$  using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	qÕ	L-	0	Study Day	2	8	7	14
			Albumir	Albumin/Globulin	Ratio			
HS / 16	1.28	1.43	1.32	1.35	1.22 <sup>4</sup> f	1.25 <sup>d1</sup>	1.27 <sup>at</sup>	1.32at
	±0.22	0.29	0.16	0.23	0.14	0.19	0.21	0.22
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
нѕ / 20	1.42	1.49	1.61	1.42	1.37 <sup>4f</sup>	1.48 <sup>df</sup>	1.45 <sup>41</sup>	1.47 <sup>dt</sup>
	±0.21	0.22	0.36	0.09	0.25	0.20	0.30	0.21
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 12	1.28	1.63	1.76	1.37	1.04°C	1.20°°°	1.00°°°	1.15°°
	±0.33	0.34	0.51	0.46	0.41	0.63	0.45	0.81
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 16	1.43	1.35	1.41	1.14	1.01ce	1.06°	0.90°°°	0.80°e
	±0.29	0.32	0.31	0.34	0.39	0.63	0.45	0.45
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 20	1.43 ±0.20 (6)	1.35 0.38 (6)	1.42 0.47 (6)	1.07 0.43 (6)	0.80°e 0.28 (6)	0.85ce 0.40 (6)	0.80°°° 0.42 (6)	0.67%

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses

b Prequarantine sample.

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

f The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	φŌ (	۲-	0	Study Day 1	2	m	7	14
			Glu	Glucose (mg/dl)	(1			
RL / 20	93.55 ±12.27	93.03 9.98	88.90 10.68	93.17	97.57	92.65	87.25	87.28 9.37
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 12	85.50	87.27	90.43	94.30	98.13	94.10	103.354	93.729
	±12.93 (6)	(6)	78.8 (9)	(6)	(6)	8/./	(9)	76. / (6)
HSD / 16	86.82	90.40	87.20	92.38	94.87	93.18	$101.65^{\rm d}$	106.634
	±13.68	12.80	11.10	9.93	10.52	13.52	11.18	13.56
HSD / 20	84.88	93.52	88.12	87.87	96.63° 8.05	99.17	103.424	98.504
	(6)	(9)	(9)	(9)	(9)	(9)	(6)	(9)
HS / 12	85.48	92.58	89.50	95.53	98.07	92.75	87.83°E	86.12°e
	±10.21	17.89	10.57	7.29	6.63	7.08	6.11	12.84
	(0)	(0)	(9)	(9)	(0)	(9)	(9)	(0)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

c The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	٩Ō	L-	0	Study Day 1	2	က	7	14
			610	Glucose (mg/dl)	11)			
HS / 16	71.68 ±26.57 (6)	91.85 9.32 (6)	91.10 4.85 (6)	94.78 7.52 (6)	95.75 11.42 (6)	91.17 8.24 (6)	94.90ce 8.99 (6)	92.93ce 14.64 (6)
HS / 20	87.83 ±15.14 (6)	93.08 6.58 (6)	91.07 9.75 (6)	90.30	96.77 6.72 (6)	95.85 6.30 (6)	92.43ce 9.69 (6)	87.77ce 9.41 (6)
D70 / 12	80.67 ±11.29 (6)	97.18 19.68 (6)	92.72 13.14 (6)	100.32 13.04 (6)	106.15° 9.18 (6)	102.92 13.41 (6)	99.38 <sup>d</sup> 9.34 (6)	98.08 <sup>d</sup> 12.53 (6)
D70 / 16	78.22 ±6.79 (6)	96.85 10.85 (6)	87.40 16.29 (6)	94.60 15.47 (6)	101.00° 4.66 (6)	94.30 5.54 (6)	96.42 <sup>d</sup> 19.30 (6)	95.90 <sup>4</sup> 9.59 (6)
D70 / 20	88.75 ±16.65 (6)	94.88 15.22 (6)	93.67 9.36 (6)	93.68 11.37 (6)	103.00° 1.98 (6)	101.23 10.19 (6)	100.78 <sup>d</sup> 6.93 (6)	106.52 <sup>d</sup> 7.91 (6)

a Data are presented as the mean t the standard deviation with the number of animals, n, in parentheses

b Prequarantine sample.

 $^{\rm c}$  The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

ᠬ  $^{\rm e}$  The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	a <sub>O</sub>	۲-	0	Study Day 1	2	m	7	14
			Blood Urea	a Nitrogen	(mg/dl)			
RL / 20	18.55	16.97	17.50	15.37	21.42	17.78	18.95	17.58
	±4.23	3.23	6.20	1.71	2.18	3.56	3.34	2.56
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 12	21.10	17.78	17.28	16.32	18.80	20.70	17.47	18.45
	±5.77	4.58	3.80	4.39	5.11	4.93	3.39	4.49
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 16	20.20	17.00	15.73	15.25	16.68	19.27	18.07	18.32
	±5.19	5.41	5.19	4.61	3.11	3.87	2.58	5.14
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 20	20.48	15.83	16.08	13.17°	16.90	16.75	16.78	16.38
	±2.84	4.31	0.92	1.71	1.68	2.67	1.86	1.97
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HS / 12	22.43	16.23	14.67	14.58	17.80	17.30	18.18	17.68
	±6.12	2.16	3.34	4.52	3.34	2.09	7.34	3.74
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

 $^{\circ}$  value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

TABLE 5 (cont.)

Serum Chemistry Summarya

HS / 16 25.13 ±9.83 (6) HS / 20 23.77		>					
/ 16		Blood Urea	a Nitrogen	(mg/dl)			
/ 20	18.15	18.35	18.15	18.12	22.83	21.13	19.10
	6.75	8.86	7.47	5.05	6.61	7.44	5.25
	(6)	(6)	(6)	(6)	(6)	(6)	(6)
(9)	19.98	17.87	15.63	18.65	17.90	17.53	19.32
	5.23	5.32	4.07	5.37	2.85	3.70	2.33
	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 12 18.80	16.08	15.53	16.82	17.05	17.10	17.60	17.47
±2.11	3.78	3.45	2.00	3.75	4.15	2.82	5.69
(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 16 24.72	17.50	15.97	16.02	18.73	18.20	16.85	17.57
±6.07	3.17	3.45	3.53	3.56	4.10	4.76	3.61
(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 20 19.97	3.67	16.03	16.45	15.53	16.80	16.92	16.45
±4.26		1.89	3.48	3.63	3.43	5.89	2.13
(6)		(6)	(6)	(6)	(6)	(6)	(6)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses. <sup>b</sup> Prequarantine sample.

TABLE 5 (cont.)

Serum Chemistry Summarya

Group/Dose (ml/kg/day)	φŌ	L-	0	Study Day	2	т е	7	14
			Creat	Creatinine (mg/dl)	d1)			
RL / 20	0.78	0.73	0.68	0.60	0.67	0.70	0.72	0.82
	(9)	(9)	(9)	(9)		(9)	(9)	(9)
HSD / 12	0.78		77.0	0.72	0.72	0.73	0.78	08.0
	+0.04	0.08	0.16	0.08	0.13	0.08	0.08	0.13
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HCD / 16	77 0	0.73	0.73	0.70	0.67	0.67	0.65	0.75
01 / 7011	+0.05	0.10	0.05	0.09	0.08	0.08	0.05	0.10
	(9)		(9)	(9)	(9)	(9)	(9)	(9)
HSD / 20	0 80	0.70	0.75	0.72	0.65	0.68	0.72	0.70
07 / 2011	90:0+	60.0	0.08	0.12	0.10	0.08	0.12	0.14
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
17 / 17	0.73	0.70	0.68	0.67	0.68	0.70	0.73	08.0
÷	+0 08	0.13	0.04	0.05	0.10	0.09	0.12	0.11
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
								4 PO 0 0 0

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses. D Prequarantine sample.

TABLE 5 (cont.)

Serum Chemistry Summarya

Group/Dose (ml/kg/day)	q O	L-	0	Study Day 1	2	т	7	14
			Creat	Creatinine (mg/dl)	d1)			
HS / 16	0.80		0.73	0.68	0.72	0.73	0.72	0.88°
	±0.09	0.10	80.	0.08	0.12	0.08	0.08	0.17
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 20	08.0	0.73	77.0	0.75	0.70	0.72	0.73	0.83
	€0.0∓	0.08	0.05	0.05	90.0	0.04	0.12	0.14
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 12	0.82		0.75	0.68	0.68	0.68	0.72	0.73
	±0.13	0.12	0.14	0.08	0.15	0.16	0.16	0.08
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 16	88.	0.82	0.78	0.75	0.68	0.68	0.68	0.77
	±0.08	0.08	0.08	0.08	0.10	0.10	0.12	0.12
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20	08.0	0.73	0.72	0.68	0.65	0.67	0.68	0.68
•	±0.0€	0.14	0.04	0.10	0.10	0.08	0.08	0.12
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

a Data are presented as the mean t the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Prequarantine sample.  $^c$  Value is significantly different from the group baseline (Day 0) at p=0.05 using the Dunnett's test.

TABLE 5 (cont.)

#### Summary Serum Chemistry

Group/Dose (ml/kg/day)	ao	r-	0	Study Day	2	3	7	14
			Cal	Calcium (mg/dl)	~			
RL / 20	10.52	10.50	10.53	10.23	10.70	10.35	11.23	10.92
	±0.69	0.51	0.66	0.33	0.30	0.52	0.78	0.86
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 12	10.62	10.48	10.15	10.00	9.95°	10.00e	10.08°	9.47°
	±0.84	0.82	0.77	0.41	0.79	0.53	0.95	0.40
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 16	10.87	10.65	10.47	10.00	9.65 <sup>e</sup>	9.85°	9.60°	9.68 <sup>t</sup>
	±0.68	0.66	0.27	0.51	0.55	0.61	0.61	0.62
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 20	10.63	10.50	10.18	10.03	9.67 <sup>e</sup>	9.60°	9.30e	8.90 <sup>ce</sup>
	±0.93	0.80	0.67	0.71	0.53	0.42	0.85	0.60
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HS / 12	10.72	10.87	10.52	10.40	10.95 <sup>df</sup>	10.65 <sup>df</sup>	11.02 <sup>df</sup>	11.12 <sup>dt</sup>
	±0.71	0.97	0.70	0.24	0.46	0.39	0.58	0.87
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Prequarantine sample.

 $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test. e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the

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f The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

ᠬ

TABLE 5 (cont.)

## Serum Chemistry Summaryd

Group/Dose (ml/kg/day)	90	L-	0	Study Day	2	3	7	14
			Cal	Calcium (mg/dl)	(			
HS / 16	11.00	10.65	10.40	10.47	10.43dt 0.69	10.65df 0.31	10.77 <sup>of</sup> 0.48	11.27df 0.88
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 20	10.95	10.80	10.18	10.45	10.6041	10,48dt	11.32 <sup>d1</sup>	11.02 <sup>dt</sup>
	±0.96 (6)	0.96 (6)	0.44	0.53 (6)	0.56	0.66	97.0	0.62
D70 / 12	10.42		10.43	10.08	10.35€	9.88	9.88	9.48
	±0.93	0.71	0.39	0.74	99.0	0.47	0.64	0.59
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 16	10.80		10.30	10.05	9.77e	9.60	9.52	9.48
	±1.22	0.80	0.70	0.52	0.52	0.47	0.32	0.71
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20	10.58	10.53	10.33	10.20	9.92e	9.63e	9.77e	9.15ce
	70.96	0.76	0.55	0.89	0.45	0.45	0.47	0.51
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses. b Prequarantine sample.

m d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test. HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

 $^{\rm f}$  The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

esod/dnois		Г		Study Day			t	
(ml/kg/day)	Ĝ.	/-	>	<b>→</b>	7	2	_	14
			Phospho	Phosphorus (mg/dl)				
RL / 20	5.92	5.60	5.28	4.97	5.63	4.92	6.23	5.12
	±1.03	0.88	0.97	9.	0.75	09.0	1.73	0.63
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 12	5.37	•	5.07	٠,	•	. 2	•	
	±1.09	1.27	0.75	1.23	0.83	0.94	1.47	0.76
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 16	5.45	•	ω.	5.17	•	•	6.10	5.85
	±0.70	0.56	0.46	•	0.57	1.08	0.97	1.10
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 20	5.82	•	5.05	•	5.12		5.62	5.22
	±0.71	0.62	0.55	0.69	0.80	0.61	0.61	0.95
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 12	5.45	5.17	4.97	5.17	•	5.28	5.63	5.13
	±0.87	0.53	0.66	0.52	0.68	0.37	0.66	0.77
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

<sup>a</sup> Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses. <sup>b</sup> Prequarantine sample.

TABLE 5 (cont.)

Serum Chemistry Summarya

Group/Dose	ą	۲_	Str	Study Day 1	c	cr	r	7
(IIII) Ay, day,	<b>S</b>		Odasoda	The surrodused		n		F 1
				the family cha	•			
HS / 16	5.63	5.27	•	•	5.20	5.38	5.75	5.30
	±1.09	0.64	0.49	0.68	1.36	•	•	0.68
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 20	5.28	•	•	•	5.15	5.15	5.45	5.18
	±1.05	0.88	0.67	0.49	0.45	0.57	n.65	0.79
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 12	5.05	5.12	6.	5.15	5.00	5.12	5.92	5.05
	±0.65	0.73	0.39	0.61	0.49	0.91	1.20	0.30
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 16	5.47	5.10	9.	•	5.15	5.40	5.60	•
	±0.56	0.94	0.39	1.00	96.0	0.84	•	0.55
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20	5.55	•	0.		5.10	5.37	5.88	5.42
	40.87	0.61	0.46	0.39		0.68	0.78	0.87
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses. <sup>b</sup> Prequarantine sample.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	ą <b>o</b>	۲-	0	Study Day 1	2	က	7	14
			So	Sodium (Meq/l)	i )			
RL / 20	156.68	153.22	154.55	153.17	154.02	152.12	154.58	152.28
	±1.22	2.19	5.49	2.74	2.44	2.79	7.46	3.39
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 12	154.17	153.90	153.68	152.93	151.38	151.52	152.60°	148.40°
	±3.53	2.10	1.93	1.97	1.28	2.92	3.00	4.11
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 16	158.58	154.08	154.83	153.57	151.87	152.17	151.67°	152.67 <sup>4</sup>
	±2.11	2.28	2.63	3.19	1.00	1.82	2.11	3.61
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 20	157.43	154.33	152.53	155.88	151.52	151.47	151.60 <sup>-1</sup>	150.70 <sup>4</sup>
	±3.11	1.78	3.49	5.08	1.21	1.05	2.78	2.44
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
нѕ / 12	156.57	153.08	154.00	153.27	153.45	152.28°	154.20cc	154.62
	±2.63	2.42	2.04	2.96	4.48	2.67	1.42	3.15
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

a Data are presented as the mean i the standard deviation with the number of animals, n, in parentheses. b Frequarantine sample.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

d The mean of the 3 dose groups for the solution indicated is significantly different from tne mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Summary
Chemistry
Serum

Group/Dose (ml/kg/day)	ąO		0	Study Day	2	m	7	14
			SC	Sodium (Meq/1	]			
HS / 10	157.18	154.20	153.10	155.25	153.25	154.13 <i>e</i>	154.37ee	154.25 <sup>ce</sup>
	±2.10	2.37	3.37	2.36	1.48	2.18	3.01	4.05
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
нs 7.0	155.93	153.38	152.58	153.38	154.10	153.00e	153.92cc	153.03ce
	±1.86	6.98	1.09	6.50	3.09	2.11	4.88	2.61
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 12	155.67	153.95	153.68	151.67	154.70	152.10 <sup>d</sup>	151.80 <sup>d</sup>	149.13 <sup>d</sup>
	±2.56	1.66	1.89	2.30	3.50	3.44	1.90	2.24
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 16	157.07	154.47	153.50	153.12	151.30	150.52 <sup>4</sup>	151.98 <sup>d</sup>	151.17 <sup>d</sup>
	±2.96	1.93	3.77	3.28	1.26	2.89	4.34	2.93
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 20	156.13	154.73	154.25	154.58	153.52	147.95 <sup>d</sup>	151.57 <sup>d</sup>	149.57 <sup>d</sup>
	±1.57	1.46	2.38	4.23	3.73	9.38	3.31	1.43
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

a Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses.

F Prequarantine sample.

'n The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

'The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

 $^{\circ}$  The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D<sup>10</sup> dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

14		115.8 1.7 (6)	115.2° 4.0 (6)	118 8° 2.6 (6)	117.5° 3.1 (6)	116.544 2.4 (5)
7		116.8 3.1 (6)	116.3 2.9 (6)	117.3 1.6 (6)	116.8 1.5 (6)	117.0 3.2 (6)
т		114.7 2.0 (6)	116.0 2.7 (6)	115.8 1.5 (6)	115.8 1.2 (6)	115.0 2.2 (6)
2	71)	115.8 2.1 (6)	116.5 3.8 (6)	118.0 2.8 (6)	117.0 3.2 (6)	115.7 4.2 (6)
Study Day	Chloride (Meg/l)	116.3 2.2 (6)	116.7 1.0 (6)	119.0 3.0 (6)	120.0 4.2 (6)	116.8 1.5 (6)
0	Ch1	116.5 2.7 (6)	115.8 2.0 (6)	116.2 2.4 (6)	114.5 3.3 (6)	117.2 1.9 (6)
ŗ-		112.0 4.4 (6)	114.8 2.5 (6)	115.3 1.5 (6)	116.0 1.8 (6)	114.2 1.9 (6)
d O		117.5 ±3.4 (6)	115.3 ±1.5 (6)	119.7 ±1.5 (6)	116.2 ±3.5 (6)	117.2 ±1.6 (6)
Group/Dose (ml/kg/day)		RL / 20	HSD / 12	HSD / 16	HSD / 20	HS / 12

" Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

~ d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test. HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>1</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the b70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	q <sub>Q</sub>	L-	0	study Day 1	2	8	7	14
			Ch	Chloride (Meg/1	/1)			
HS / 16	115.0	113.3	115.3	117.0	114.7	114.3	114.2	113.7 <sup>df</sup>
	±3.7	1.5	2.3	2.3	2.6	2.4	3.4	4.2
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HS / 20	116.2	114.8	114.0	119.2°	117.2°	114.5	115.3	112.8 <sup>d3</sup>
	±1.2	2.9	1.9	3.0	2.6	2.6	3.9	2 1
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 12	118.2	115.3	118.5	116.3	119.2	117.3	117.7	117.2°
	±3.4	2.3	1.5	1.9	3.1	2.3	2.2	1.8
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 16	118.3	114.5	116.2	118.3	116.3	117.2	119.5	119.5°
	±2.2	1.6	3.6	2.8	i.2	4.2	1.8	1.9
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 20	18.7	117.2	115.5	117.8	118.7	117.0	118.7	118.5°
	±2.7	1.7	1.8	2.6	2.5	2.6	3.1	1.4
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test. HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

 $^{\mathrm{f}}$  The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	qΟ	L-	0	study Day 1	2	c)	7	14
			Potass	ssium (Meq/l)	1)			
RL / 20	4.88	4.65	4.80	4.80	4.65	4.78	4.75	4.90
	+0.40	0.34	0.43	0.47	0.34	0.26	0.34	0.26
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 12	4.80	4.75	4.72	4.62	4.58 <sup>d</sup>	4.72	4.409	4.534
,	+ 0 · 6 <del>+</del>	٦.	0.15	0.33	0.21	0.29	0.15	0.26
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 16	5.05		4.62	4.62	4.63d	4.70	4.474	4.454
7 70	+0.36	0.10	0.34	0.27	0.28	0.39	0.29	0.22
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 20	4.88	•	4.88	4.52	4.55	4.75	4.604	4.609
	±0.31	0.30	0.48	0.31	0.23	0.14	0.26	0.25
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
C1 / SH	4.87	4.70	4.80	4.72	4.77ce	4.87°	4.67ce	4.85℃
	+0.24	0.37	0.30	0.15	0.20	0.16	0.20	0.16
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

a Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses

b Prequarantine sample.

ng the Student-Newman-Keuls multiple range test. r the solution indicated is significantly different from the mean of the 3  $^{\circ}$  The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose croups at  $\mathbf{F} = 0.05 \text{ t}$ 

the Student-Newman-Keuls multiple range test. d The mean of the 3 dose group? HS dose groups at p = 0.05 u.

The mean of the 3 dose groups . the solution indicated is significantly different from the mean of the 3 D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test. e The mean of the 3 dose groups.

TABLE 5 (cont.)
Serum Chemistry Summary

Group/Dose (ml/kg/day)	ą <b>O</b>	L-	0	Study Day 1	2	m	7	14
			Pota	Potassium (Meq/l)	1)			
HS / 16	4.98	4.65	4.57	4.62	4.72ce	4.77e	4.75ce	4.97ce
	±0.15	0.26	0.19	0.41	0.21	0.33	0.21	0.39
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 20	4.85	4.80	4.82	4.63	4.87ce	4.78e	4.87ce	5.02ce
	±0.41	0.32	0.37	0.18	0.33	0.31	0.51	0.17
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D76 / 12	4.73	4.75	4.90	4.65	4.759	4.734	4.58°	4.589
	±0.31	0.21	0.46	0.43	0.44	0.29	0.45	0.23
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 16	4.68	4.43	4.62	4.45	4.52d	4.609	4.459	4.439
	±0.25	0.26	0.50	0.30	0.32	0.33	0.29	0.19
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20	4.87	4.80	4.88	4.68	4.72d	4.58d	4.42d	4.629
	±0.14	0.17	0.26	0.34	0.27	0.44	0.17	0.19
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

d Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Prequarantine sample.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at ; = 0.05 using the Student-Newman-Keuls multiple range test.  $^{\circ}$  The mean of th 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

 $^{\rm e}$  The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

			1		7			
Grcup/Dose (ml/kg/day)	٥٥	Ĺ-	0	Study Day 1	2	m	7	14
				Iron (µg/dl)				
RL / 20	171.62 ±51.35	137.22	175.22 66.84	142.33	135.27	104.97 28.08	125.75 61.07	124.73 32.46
	(9)	(a)	(0)	(2)	(0)	(0)	(a)	(0)
HSD / 12	189.28 ±71.98 (6)	152.25 76.60 (6)	144.78 96.66 (6)	126.57e 71.32 (6)	135.80° 127.05 (6)	96.55e 41.03 (6)	58.17 <sup>e</sup> 31.37 (6)	46.52° 7.12 (6)
HSD / 16	138.35 ±20.47 (6)	121.47 36.15 (6)	109.27 39.34 (6)	81.58 <sup>e</sup> 18.17 (6)	107.95° 41.88 (6)	87.40° 36.29 (6)	84.17 <sup>e</sup> 22.04 (6)	69.12° 15.55 (6)
HSD / 20	172.88 ±63.28 (6)	117.22 25.29 (6)	128.13 28.68 (6)	115.22e 60.67 (6)	109.92e 28.1 <b>4</b> (6)	90.05 <sup>e</sup> 35.70 (6)	76.63° 37.64 (6)	75.18° 14.27 (6)
HS / 12	157.65 ±83.74 (6)	120.33 58.32 (6)	121.58 70.94 (6)	185.17 <sup>df</sup> 68.25 (6)	200.28 <sup>df</sup> 46.79 (6)	148.83 <sup>df</sup> 41.03 (6)	95.22 <sup>dt</sup> 38.08 (6)	148.88 <sup>at</sup> 38.48 (6)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the  $^{\rm c}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p=0.35 using the Student-Newman-Keuls multiple range test.

D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	QQ (	L-	0	Study Day	2	3	7	14
			[	Iron (μg/dl)				
HS / 16	153.75	94.60	108.98	173.78 <sup>df</sup>	176.50 <sup>dt</sup>	154.18 <sup>df</sup>	152.40 <sup>df</sup>	142.18 <sup>df</sup>
	±48.44	26.56	54.36	100.99	96.75	23.98	76.19	47.95
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HS / 20	168.97	171.32	172.45	157.90 <sup>dt</sup>	219.68 <sup>41</sup>	199.13 <sup>df</sup>	198.03 <sup>41</sup>	199.23 <sup>4</sup> !
	±70.68	71.96	84.67	43.43	39.12	64.20	73.95	57.06
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 12	126.95	145.23	144.03	129.35 <sup>e</sup>	87.90°	71.50°	90.34°	71.53°
	±27.25	45.21	65.89	76.68	37.85	30.24	27.18	14.46
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 16	142.43	183.07	90.70	113.30°	94.22°	76.33°	57.83°	59.20°
	±32.57	82.85	23.93	65.76	69.14	28.02	25.86	22.03
	(6)	(6)	(6)	(6)	(6)	(£)	(6)	(6)
D70 / 20	185.90	126.62	129.60	71.53ce	78.57ce	67.83ce	62.80ce	68.12°°°
	±75.13	32.58	20.45	34.93	11.28	14.93	12.66	15.62
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses b Prequarantine sample.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

 $\sim$ f The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	qΟ	۲-	0	Study Day 1	2	м	7	14
			Magne	Magnesium (mg/dl)	1)			
RL / 20	1.758	1.703	1.753	1.673	1.763	1.705	1.788	1.763
	(9)	(9)	(9)	(9)	(0)	(9)	(9)	(9)
HSD / 12	1.700 ±0.091 (6)	1.723 0.128 (6)	1.648 0.097 (6)	1.485 0.114 (6)	1.542° 0.063 (6)	1.677e 0.114 (6)	1.513° 0.143 (6)	1.500°°° 9.201 (6)
HSD / 16	1.787 ±0.110 (6)	1.667 0.080 (6)	1.660 0.053 (6)	1.582 0.082 (6)	1.518 <sup>6</sup> 0.052 (6)	1.608° 0.194 (6)	1.533° 0.158 (6)	1.550ef 0.191 (6)
HSD / 20	1.845 ±0.194 (6)	1.633 0.175 (6)	1.660 0.062 (6)	1.582 0.155 (6)	1.637e 0.123 (6)	1.613e 0.061 (6)	1.575° 0.098 (6)	1.563et 0.088 (6)
HS / 12	1.775 ±0.071 (6)	1.743 0.167 (6)	1.652 0.106 (6)	1.597 0.108 (6)	1.765 <sup>df</sup> 0.140 (6)	1.722 <sup>d1</sup> 0.223 (6)	1.778 <sup>d1</sup> 0.170 (6)	1.760 <sup>dt</sup> 0.113 (6)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses

b Prequarantine sample.

 $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Scudent-Newman-Keuls multiple range test.

 $\sim$ e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

f The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the S adent-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Group/Dose (ml/kg/day)	φŌ	L-	0	Study Day 1	2	ю	7	14
			Magne	Magnesium (mg/dl)	1)			
HS / 16	1.753	1.658	1.623	1.663	1.595 <sup>df</sup>	1.747 <sup>d1</sup>	1.663 <sup>of</sup>	1.718 <sup>41</sup>
	±0.149	0.084	0.034	0.055	0.050	0.101	0.182	0.136
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HS / 20	1.822	1.848	1.693	1.682	1.698 <sup>df</sup>	1.805 <sup>df</sup>	1.840 <sup>dt</sup>	1.878 <sup>df</sup>
	±0.102	0.172	0.033	0.069	0.146	0.186	0.163	0.161
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 12	1.727	1.682	1.690	1.597	1.630°	1.678±	1.572°	1.457 <sup>dc</sup>
	±0.106	0.094	0.185	0.105	0.160	0.220	0.103	0.118
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 16	1.788	1.742	1.635	1.583	1.593°	1.547e	1.497 <sup>(·</sup>	1.463 <sup>de</sup>
	±0.162	0.175	0.127	0.053	0.135	0.113	0.106	0.107
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 20	1.773	1.692	1.718	1.682	1.550ce	1.557ce	1.505°°°	1.455cde
	±0.150	0.180	0.117	0.149	0.095	0.139	0.071	0.082
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test. c Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6

<pre>Group/Dose (ml/kg/day)</pre>	φŌ	L-	0	Study Day 1	7	က	7	14
		T	Total Leukocyte	ocyte Count	$(x10^3/\mu 1)$			
RL / 20	11.40 ±2.51	10.82	10.43	11.73	12.50	11.28 3.55	11.18	9.68 1.45
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 12	12.15	12.50	10.92	12.50	13.17	10.75	9.53	9.80
	±2.43 (6)	3.53 (6)	2.89 (6)	5.32	5.50	1.64 (6)	0.84	1.64
HSD / 16	12.62	10.88	11.48	10.72	9.95	10.75	8.58	98.6
	±2.74 (6)	2.24 (6)	3.10 (6)	2.80 (6)	2.02 (6)	2.59 (6)	2.22 (6)	4.23
HSD / 20	13.70	10.37	11.37	10.48	10.50	8.80€ 1.20	7.47	7.42
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 12	12.50 ±2.63	11.68 0.98	10.58	11.68	11.73	11.33	12.034	11.58
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p=0.05 using the Dunnett's test.

HSD dose groups at p = 0.05 using the Student-Newman-Keul? multiple range test.

 $\sim$ e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

f The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

<pre>Group/Dose (ml/kg/day)</pre>	q Ø	L-	0	Study Day	2	ю	7	14
			Total Leukocyte	cyte Count	(×10 <sup>3</sup> /µ1)			
HS / 16	12.50	11.05	10.62	11.68	11.40	12.63	12.47 <sup>dt</sup> 6.12	10.43
	(9)	(6)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 20	11.42	11.60	10.42	9.68	10.57	10.58	11.72d!	10.80
	±2.14 (6)	3.09 (6)	1.99 (6)	2.18 (6)	1.70 (6)	1.89 (6)	3.10 (6)	2.91 (6)
D70 / 12	15.75		10.73	12.25	10.95	11.55	9.25	10.52
	±8.02	2.95	2.48	3.13	1.99	2.86	2.47	4.29
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 16	13.13	11.17	11.48	10.85	11.43	10.33	8.28	9.80
	±3.90	3.14	3.63	2.88	3.47	3.77	1.47	2.91
	(9)	(9)	(0)	(9)	(0)	(0)	(0)	(a)
D70 / 20	12.35	12.70	11.48	9.53	8.65°	9.25	7.20ce	8.25
	±2.40	3.26	3.11	2.33	2.28	2.42	2.61	0.68
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

a Data are presented as the mean I the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

ᠻ f The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

Group/Dose (ml/kg/day)	φŌ	r-	s o	Study Day	5	ж	L	14
			Erychrocytes	cytes (x10 <sup>6</sup> /µ1)	/µ1)			
RL / 20	7.290	7.455	7.138	7.047	7.018	6.847	6.880	7.195
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 12	7.448	7.328	6.980	6.805	6.687	6.740	6.240***	6.197
	±0.479 (6)	0.585	00.700	0.497 (6)	0.507	0.610 (6)	0.598	0.847
HSD / 16	7.395	7.487	7 150	6.900	6.753	6.703	6.573***	6.46574
	(6)	(6)	(6)	(9)	(9)	(9)	(9)	(9)
1SD / 20	7.508	7.123	7.335	6.678	6.738° 0.165	6.542	6.247**	6.087 <sup>e1</sup> 0.965
	0 <b>5</b> C (9)	(9)	(6)	(9)	(9)	(9)	(9)	(9)
нЅ / 12	7.318	7.115	6.835	6.558	7.06041	6.8021	6.5154	7.25341
	±0.688 (6)	0.707 (6)	0.420	0.492 (6)	909.0	(6)	(6)	(6)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in pareatheses.

b Prequarantine sample.

 $\sim$ d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the  $^{\circ}$  Value is significantly different from the group baseline (Day  $^{\circ}$ ) at p = 0.05 using the Dunnett's test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

ᠬ

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

(cont.) 9 TABLE

#### Summary Hematology

Group/Dose (ml/kg/day)	ąŌ	-7	0	study bay	2	3	7	14
			Erythro	Erythrocytes $(x10^6/\mu 1)$	/µ1)			
HS / 16	7.272 ±0.275 (6)	7.153 0.501 (6)	6.997 0.346 (6)	7.040 0.296 (6)	6.962 <sup>41</sup> 0.135 (6)	6.815 <sup>1</sup> 0.297 (6)	6.862 <sup>41</sup> 0.284 (6)	7.403°dt 0.301 (6)
HS / 20	7.300 ±0.554 (6)	7.383 0.301 (6)	7.128 0.352 (6)	6.797 0.395 (6)	6.973 <sup>41</sup> 0.277 (6)	6.768°° 0.396 (6)	6.752° at 0.492 (6)	7.270 <sup>at</sup> 0.399 (6)
D70 / 12	7.123 ±0.693 (6)	7.288 0.498 (6)	7.097 0.355 (6)	6.545° 0.549 (6)	6.605°° 0.483 (6)	6.255°° 0.511 (6)	5.842 m 0.459 (6)	5.750°4° 0.659 (6)
D70 / 16	7.065 ±0.491 (6)	7.392 0.692 (6)	6.935 0.707 (6)	6.722 0.652 (6)	6.433°°° 0.548 (6)	6.362°°° 0.668 (6)	5.953 de 0.572 (6)	5.418°°° 0.640 (6)
D70 / 20	7.350 ±0.344 (6)	7.245 0.567 (6)	6.960 0.455 (6)	6.737 0.287 (6)	6.378°°° 0.432 (6)	6.202.e 0.308 (6)	5.660:dr 0.428 (6)	5.438° de 0.224 (6)

a Data are presented as the main the standard deviation with the number of animals, n, in parentheses. b Prequarantine sample.

 $^{
m d}$  The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)
Hematology Summary

Group/Dose (ml/kg/day)	φÖ	-7	0	Study Day 1	5	3	7	14
			Нето	Hemoglobin (g/dl)	1)			
FL / 20	16.63	16.85	16.37	16.20	16.07	15.80	15.85	16.55 1.58
	(6)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 12	16.90	16.47	15.87	15.45	15.37	15.37	14.1800	14.13 <sup>cet</sup>
	±0.61	0.97	96.0	0.77	0.50	0.88	0.91	1.58
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 16	16.68	16.82	16.20	15.60	15.27°	15.13	14.880	14.700
	<del>1</del> 0.69	1.18	0.96	0.72	0.72	0.45	0.91	1.46
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 20	17.02	16.27	16.83	15.32	$15.55^{\circ}$	15.07	14.270	14.080
	<b>±1</b> .18	1.03	0.39	1.23	0.27	0.47	1.06	2.41
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 12	16.25	15.67	15.30	14.90	15.78 <sup>df</sup>	15.27	14.78 <sup>d1</sup>	16.35
	±1.00	1.29	06.0	1.17	1.01	99.0	0.65	1.21
	(9)	(9)	(9	(9)	(9)	(9)	(9)	(9)

a Data are presented as the mean I the standard deviation with the number of animals, n, in parentheses

Value is significantly different from the group baseline (Day 0) at p=0.05 using the Dunnett's test. b Prequarantine sample.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dos. groups at p=0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

#### Summary Hematology

Group/Pose (ml/kg/day)	ąÕ	L-	0	Study Day 1	2	æ	7	14
			Нето	Hemoglobin (g/di	( ; )			
HS / 16	16.80	16.35	16.20	16.37	16.07 <sup>d1</sup>	15.72ct	15.93 <sup>41:</sup>	17.10cdf
	±0.83	1.56	1.00	0.90	0.77	1.03	0.80	0.56
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HS / 20	16.53	16.70	16.25	15.67	16.02 <sup>df</sup>	15.58'	15.55 <sup>43</sup>	16.78 <sup>34</sup>
	±1.00	0.76	1.02	1.12	0.88	1.18	1.26	1.07
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 12	16.27 ±1.42 (6)	16.45 1.43 (6)	16.05 0.91 (6)	15.02° 1.23 (6)	15.00°° 1.02 (6)	14.33°° 0.92 (6)	13.33 °° 0.79 °° (6)	13.22° % 1.41 (6)
D70 / 16	16.03	16.52	15.80	15.03°	14.57°°	14.37***	13.47 car.	12.20° de
	±0.96	1.36	1.33	1.32	0.90	1.21	1.10	1.34
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 20	16.88	16.37	16.05	15.52	14.77 <sup>ce</sup>	14.30°°°	13.07cde	12.67°ae
	±0.71	0.98	0.61	0.84	0.86	0.40	0.75	0.56
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

 $^{\rm c}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

d The mean of the 3 dose groups for the solution indicated is significently different from the mean of the e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

 $^{\mathrm{f}}$  The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

Group/Dose (ml/kg/day)	q <b>0</b>	-7	0	Study Day	2	m	7	14
			Her	Hematocrit (%)	(			
RL / 20	49.52	50.25	48.30	47.28	47.48	46.32	46.50	43.65
	±3.63	3.07	2.59	3.79	3.00	4.91	3.50	4.74
	(6)	(6)	(6)	(6)	(£)	(6)	(6)	(6)
HSD / 12	50.43 ±1.87 (6)	49.25 3.23 (6)	46.88 3.17 (6)	45.48 2.50 (6)	44.97c 1.95 (£)	45.35 2.67 (6)	41.75cet 2.97 (6)	42.10 <sup>cv1</sup> 5.08 (6)
HSD / 16	49.95	50.03	47.83	46.13	45.35°	44.65	43.93 <sup>e</sup> :	43.55ct
	±1.69	3.26	2.89	2.50	2.00	1.39	2.50	4.17
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 20	51.57	48.42	49.98	45.13	45.88e	44.32	42.33et	41.82 <sup>0.1</sup>
	±3.67	3.27	1.33	3.61	1.50	1.23	2.86	7.13
	(6)	(6)	(6)	(6)	(€)	(6)	(6)	(6)
HS / 12	49.05	47.33	45.32	43.52	46.95 <sup>df</sup>	45.17 <sup>t</sup>	43.58 <sup>d1</sup>	49.28edt
	±3.36	4.34	2.31	3.53	3.73	1.98	1.80	3.96
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

a Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 c Value is significantly different from the group baseline (Day 0) at p=0.05 using the Dunnett's test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at  $p \approx 0.05$  using the Student-Newman-Keuls multiple range test.

 $^{\mathrm{f}}$  The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the  $^{\mathrm{3}}$ D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

Hematocrit (%)  HS / 16 50.13	Group/Dose (ml/kg/day)	φŌ	L-	0	Study Day	2	m	7	14
50.13         48.70         47.78         47.90         47.47***         46.27**         47.03***           ±2.18         4.77         2.81         1.98         5.15         2.96         1.98           (6)         (6)         (6)         (6)         (6)         (6)         (6)           49.68         49.78         48.18         45.93*         47.20**         45.48**         46.07**           ±3.24         1.99         2.52         3.10         2.20         3.08         3.58           ±3.24         (6)         (6)         (6)         (6)         (6)         (6)           (6)         (6)         (6)         (6)         (6)         (6)         (6)           48.58         48.77         47.97         43.95         44.47**         42.00**         39.23**           ±4.16         (6)         (6)         (6)         (6)         (6)         (6)           (6)         (6)         (6)         (6)         (6)         (6)         (6)           47.75         49.50         46.30         44.95         42.68**         42.47**         39.63 ***           ±3.00         (6)         (6)         (6)         (6) <td></td> <td></td> <td></td> <td>Her</td> <td></td> <td><u></u></td> <td></td> <td></td> <td></td>				Her		<u></u>			
49.68         49.78         48.18         45.93°         47.20°         45.48°         46.07°           ±3.24         1.99         2.52         3.10         2.20         3.08         3.58           (6)         (6)         (6)         (6)         (6)         (6)         (6)           48.58         48.77         47.97         43.95°         44.47°         42.00°         39.23°°           ±4.16         4.47         2.76         3.61         3.54         2.77         2.37           ±4.16         (6)         (6)         (6)         (6)         (6)         (6)           (6)         (6)         (6)         (6)         (6)         (6)         (6)           50.48         49.70         47.80         45.63         42.68°°         42.47°°         39.63 °°           ±2.13         2.90         1.98         2.01         (6)         (6)         (6)         (6)           (6)         (6)         (6)         (6)         (6)         (6)         (6)         (6)           50.48         49.70         47.80         45.63         43.62°         42.13°         2.40°           ±2.13         (6)         (6)	HS / 16	50.13 ±2.18 (6)	48.70 4.77 (6)	47.78 2.81 (6,	47.90 1.98 (6)	41.47 <sup>at</sup> £.15 (5)	46.27 <sup>1</sup> 2.96 (6)	47.03 <sup>41</sup> 1.98 (6)	51.53 <sup>cdf</sup> 1.55 (6)
48.58       48.77       47.97       43.95°       44.47°       2.77       2.37         ±4.16       4.47       2.76       3.61       3.54       2.77       2.37         £4.16       (6)       (6)       (6)       (6)       (6)         (6)       (6)       (6)       (6)       (6)       (6)         47.75       49.50       46.30       44.95       42.68°°       42.47°°       39.63 %         ±3.00       4.08       4.53       3.94       3.63       3.69       3.51         (6)       (6)       (6)       (6)       (6)       (6)         ±2.13       2.90       1.98       2.01       2.18       1.70       2.40         ±2.13       (6)       (6)       (6)       (6)       (6)       (6)       (6)	HS / 20	49.68 ±3.24 (6)	49.78 1.99 (6)	48.18 2.52 (6)	45.93° 3.10 (6)	47.20 <sup>d1</sup> 2.20 (6)	45.48ct 3.08 (6)	46.07 <sup>d3</sup> 3.58 (6)	50.33 <sup>4</sup> ′ 3.15 (6)
$47.75$ $49.50$ $46.30$ $44.95$ $42.68$ °° $42.47$ °° $39.63$ °° $\pm 3.00$ $4.08$ $4.53$ $3.94$ $3.63$ $3.69$ $3.51$ $(6)$ $(6)$ $(6)$ $(6)$ $(6)$ $(6)$ $50.48$ $49.70$ $47.80$ $45.63$ $43.62$ °° $42.13$ °° $38.40$ °° $\pm 2.13$ $2.90$ $1.98$ $2.01$ $2.18$ $1.70$ $2.40$ $(6)$ $(6)$ $(6)$ $(6)$ $(6)$ $(6)$	D70 / 12	48.58 ±4.16 (6)	48.77 4.47 (6)	47.97 2.76 (6)	43.95° 3.61 (6)	44.47 <sup>(1)</sup> 3.54 (6)	42.00°°° 2.77 (6)	39.23*** 2.37 (6)	\$9.20 % 4.48 (6)
50.48 49.70 47.80 45.63 43.62ce 42.13ce 38.40cde ±2.13 2.90 1.98 2.01 2.18 1.70 2.40 (6) (6) (6) (6)	D70 / 16	47.75 ±3.00 (6)	49.50 4.08 (6)	46.30 4.53 (6)	44.95 3.94 (6)	42.68°°° 3.63 (6)	42.47°° 3.69 (6)	39.63 40 3.51 (6)	36.30° ac 4.06 (6)
	D70 / 20	50.48 ±2.13 (6)	49.70 2.90 (6)	47.80 1.98 (6)	45.63 2.01 (6)	43.62 <sup>cc</sup> 2.18 (6)	42.13ce 1.70 (6)	38.40 <sup>cde</sup> 2.40 (6)	37.28°°4° 1.28 (6)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses

b Prequarantine sample.

ᠬ d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the c Value is significantly different from the group baseline (Day 0) at p=0.05 using the Dunnett's test. HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

f The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

(IIII) AG/ day)	qO	-7	0	stuay bay	2	e ا	7	14
		Mean	Corpuscular	Volume	(femtoliters)	(8.		
RL / 20	67.95	67.38	67.65	67.10	67.65	67.62	67.60	69.05°
	±2.05 (6)	1.49	1.72	1.38 (6)	(6)	(9)	(6)	(6)
HSD / 12	67.85	67.33	67.38	66.98	67.43	67.48	67.03	68.085
	±2.90	2.73	2.75	3.00	2.94	2.96	2.03	2.91
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
31 / 000 /	67 63	66.88	67.02	66.97	67.30	66.60	66.92	67.50
	60.70 +2 28	1.93	2.26	2.38	2.42	1.82	2.30	2.59
	(6)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HcD / 20	68 68	67.95	68.15	67.60	68.05	67.75	67.78	.09.89
2 / 2311	+1 13	1.00	1.20	0.86	0.89	0.88	1.02	0.91
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HC / 12	71 79	66.60	66.37	66.35	66.57	66.43	96.99	68.004
- T / CII	40 V+	2.09	1.91	2.45	2.23	2.20	2.11	2.63
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

the mean ± the standard deviation with the number of animals, n, in parentheses. a Data are presented

b Prequarantine sampi

d The mein of the 3 dose groups for the solution indicated is significantly different from the mean of the 3  $^{\rm c}$  Value is significantly different from the group baseline (Day 0) at p  $^{\rm s}$  0.05 using the Dunnett's test.

e the mean of the 3 dose groups for the solution indicated is significantly different from the mean of the MSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

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 $^{\mathrm{f}}$  The mean of the 3 dose groups for the solution indicated is significantly different from the mean ot the  $^{\mathrm{3}}$ 35 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

D76 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

(cont.) TABLE 6

#### Summary Hematology

<pre>Group/Dose (ml/kg/day)</pre>	ĝ.	L-	0	Study Day 1	5	m	L	14
		Mean	Corpuscular	ar Volume	(femtoliters)	(8)		
HS / 16	68.98	68.00	68.27	68.07	68.15	67.83	68.57	69.68cdt
	±2.44	2.38	2.64	1.73	2.44	2.26	2.56	2.71
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HS / 20	68.15	67.45	67.62	67.57	67.67	67.15	68.22	69.23 <sup>cd</sup>
	±1.95	1.88	1.63	1.15	1.34	1.14	1.35	1.30
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 12	68.27	66.87	67.62	67.23	67.35	67.23	67.30	68.22
	±2.21	2.90	2.69	3.45	3.13	2.74	2.76	2.97
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 16	67.62	67.03	66.80	66.52	66.35	66.85	66.63	67,03°
	±1.36	1.48	0.97	1.09	1.14	1.36	0.85	0.81
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
D70 / 20	68.77	68.70	68.77	67.78	68.47	67.95°	67.92·	68.68°
	±2.41	2.25	2.24	2.32	2.39	2.66	2.03	2.69
	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses. Prequarantine sample.

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d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p  $\approx$  0.05 using the Dunnett's test. HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

f The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

Group/Dose (ml/kg/day)	qΟ	L-	0	Study Day	5	33	7	14
	: 	Mean	Corpuscular	r Hemoglobin	in (picograms)	ams)		
RL / 20	22.83 ±0.77	22.60	22.93 0.52	23.00	22.88 0.37	23.10	23.05	23.02
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 12	22.72	22.52	22.80	22.73	23.03	22.87	22.78	22.92
	±1.17		1.16	1.05	1.17	1.26	1.02	1.07
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 16	22.57	22.45	22.70	22.65	22.65	22.58	22.67	22.78
	±0.91	0.86	0.85	97.0	0.79	0.58	0.83	0.88
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 20	22.67		22.95	22.95	23.08	23.03	22.83	23.10
	±0.12	0.33	0.34	0.30	0.30	0.58	0.39	0.48
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 12	22.27	22.08	22.40	22.72	22.40	22.47	22.70	22.55
	±0.90	1.01	1.09	0.75	0.92	77.0	0.84	0.84
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

 $^{\rm a}$  Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.  $^{\rm b}$  Prequarantine sample.

TABLE 6 (cont.)

(ml/kg/day)	ф	L-7	0	otuay bay	2	~	7	1.4
		Mean	Corpuscular	r Hemoglobin	in (picograms)	ıms)		
HS / 16	23.12	22.83	23.15	23.25	23.05	23 07	23.22	23.12
	£6.93 (6)	0.84	(6)	06.30	(6)	(6)	(9)	(9)
HS / 20	22.68	22.62	22.78	23.02	22.95	23.02	23.02	23.08
	±0.67	0.65	0.67	0.68	0.54	0.73	0.53	0.51
	(9)	(9)	(9)	(9)	(9)	(6)	(9)	(9)
D70 / 12	22.87	22.57	22.63	22.98	22.72	2298	22.87	23.02
	+1.11	0.82	1.03	1.14	0.66	1.27	1.16	1.14
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 16	22.72	22.38	22.82	22.38	22.68	22.62	22.65	22.53
	±0.63	0.43	0.62	0.36	0.61	0.51	0.49	0.3
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20	22.98	23.03	23.12	23.03	23.20	23.08	23.13	23.32
	±0.91	1.11	1.13	1.11	1.03	1.14	1.05	1.02
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

<sup>a</sup> Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses. <sup>b</sup> Prequarantine sample.

TABLE 6 (cont.)

	٩Ō	۲-	0	Study Day	2	m	7	14
		Mean Corpuscular	ıscular Hen	Hemoglobin Co	Concentration	(g/dl)		
RL / 20	33.62	33.53	33.87	34.30	33.83	34.15	34.12	33.33
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 12	33.53	33.43	33.87	33.98	34.17	33.90	33.98	33.62
	±0.72	0.37	0.53	0.62	0.88	0.61	0.71	0.49
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 16	33.38	33.60	33.85	33.83	33.67	33.92	33.88	33.73
	±0.55	0.64	0.40	0.56	0.41	0.41	0.49	0.37
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 20	33.00	33.62	33.67	33.95	33.90	34.00	33.70	33.65
	±0.54	0.64	0.46	0.70	0.81	1.09	0.86	0.37
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 12	33.13	33.13	33.77	34.25	33.65	33.80	33.90	33.18
	±0.43	0.72	0.85	0.27	0.65	0.46	0.40	0.39
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

 $^{\rm a}$  Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.  $^{\rm b}$  Prequarantine sample.

TABLE 6 (cont.)

(ml/kg/day)	ФĎ	۲-	0	study Day	2	3	7	14
		Mean Corpu	Corpuscular Hem	Hemoglobín Co	Concentration	n (g/dl)		
HS / 16	33.50	33.58	33.90	34.15	33.85	33.97	33.87	33.18°
	±0.46 (6)	0.35	0.35	0.68 (6)	0.19 (6)	0.45	0.36	0.31
00 / 311	33 30		33 70	34 10	33 92	34 27	33 75	33 33
07 / cu	10.50	ے ر	0.50	0.52	0.31	0.83	0.44	0.19
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
070 / 12	33.50	33.77	33.43	34.20	33.77	34.15	34.02	35.73
) }	±0.73	0.49	0.22	0.68	0.77	0.94	0.62	0.43
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(a)
D70 / 16	33.58	33.37	34.17	33.43	34.20	33.83	34.00	33.62
	±0.35	0.48	0.68	0.27	1.03	0.28	0.37	0.66
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20	33.43	33,53	33.60	34.00	33.85	33.97	34.03	33.95
	±0.28	0.69	0.87	0.78	0.51	0.63	0.71	0.54
	(9)	_	(9)	(9)	(9)	(9)	(9)	(9)

a Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Prequarantine sample.  $^c$  value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

TABLE 6 (cont.)

#### Summary Hematology

		0		2	m	<i>i.</i>	14
		Plat	Platelets (x10 <sup>3</sup> /µ1)	3/µ1)			
RL / 20 363.7	342.3	313.7	310.2	316.2	299.2	324.2	358.2
±123.3	69.9	61.2	59.9	67.9	68.8	71.7	107.7
(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HSD / 12 381.0	360.5	354.7	339.7	290.3°	288.5°°° 97.8	237.7°°	310.2°
±72.9	86.6	109.5	132.4	112.9		73.2	75.9
(6)	(6)	(6)	(6)	(6)		(6)	(6)
HSD / 16 423.3 ±63.4 (6)	400.7 79.7 (6)	374.7 76.1 (6)	340.7 68.3 (6)	306.3 <sup>34</sup> 63.5 (6)	296.39 54.9 (6)	223.2 ° 85.7 (6)	274.5 ° 70.3 70.3 (6)
HSD / 20 451	384.7	407.0	331.2°	309.0°°	291.2°°	252.0°°	243.2···
±54.4	86.8	27.6	30.2	28.8	60.3	60.5	64.3
(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
HS / 12 454.2	358.2	376.7	400.2	363.3 <sup>d</sup>	396.7 <sup>d1</sup>	398.5 <sup>d1</sup>	424.7 <sup>11</sup>
±55.8	104.0	39.6	50.8	63.5	47.8	42.8	71.6
(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

a Data are presented as the mean I the standard deviation with the number of animals, n, in parentheses

Prequarantine sample.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test. HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at  $p\approx 0.05$  using the Student-Newman-Keuls multiple range test.

(cont.) 9 TABLE

#### Summary Hematology

Group/Dose (ml/kg/day)	у) Q <sup>Б</sup>	۲	0	study Ddy	≎1	$\sim$		14
			Plat	Platelets (x103/µ1)	3/µ1)			
HS / 16	399.7 ±52.1 (6)	324.3 66.2 (6)	322.5 41.4 (6)	315.0 53.2 (6)	301.7 <sup>9</sup> 39.9 (5)	301.2 <sup>d1</sup> 55.5 (6)	327.0d: 79.4 (6)	359.7 <sup>dt</sup> 63.6 (6)
HS / 50	394.0 ±79.7 (6)	370.8 65.0 (6)	363.2 66.7 (6)	350.8 48.5 (6)	349.84 41.3 (6)	353.845 70.3 (6)	576.23: 52.8 (6)	405.8 <sup>46</sup> 82.2 (6)
D70 / 12	393.8 ±63.4 (6)	348.8 10.3 (6)	329,3 71,9 (6)	301.8 70. (6)	274.3 72.8 (6)	256.0°° 55.3 (6)	233.0°° 64.2 (6)	224.5°° 72.1 (6)
D70 / 16	444.5 ±105.9 (6)	403.0 122.9 (6)	366.2 95.4 (6)	344.5 86.4 (6)	276.1° 89.1 (6)	285.2°°° 66.2 (6)	227.3··· 65.7 (6)	251.7°° 72.3 (6)
D70 / 20	435.7 ±96.2 (6)	409.2 113.0 (6)	373.3 132.5 (6)	353.3 129.0 (6)	295.7 100.6 (6)	276.0ce 87.4 (6)	187.8°°° 41.2 (6)	215.2°° 56.5 (6)

Data are presented as the mean £ the standard deviation with the number of animals, n, in pareatheses.

Prequarantine sample.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the  $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

(Inn /Sw /Tim)	σŌ	L-	0	Study Day 1	5	က	l.	14
			Reti	culocytes	(%)			
RL / 20	1.68	1.18	0.95	1.33	0.92	1.23	1.30	2.60°
	(6)	(6)	(6)	(6)	0.32 (6)	(6)	(6)	(6)
HSD / 12	1.87	1.77	1.07	1.30	1.30	1.08	0.72	1.75
	±0.58	1.25	09.0	1.12	0.61	0.64	0.31	0.75
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 16	1.57	1.66	1.15	0.88	1.02	0.95	1.00	1.25
	₹0.99	0.59	0.69	0.28	0.49	0.75	0.45	0.24
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 20	2.07	2.23	1.48	1.18	0.95	0.78	٦.23	1.380
	±0.81	1.28	0.93	0.44	0.51	0.34	1.03	0.76
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 12	1.62	1.83	1.53	1.23	1.37	1.42	1.65	2.77
	±0.54	0.69	0.62	0.43	0.85	0.67	0.62	0.76
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses

b Prequarantine sample.

c Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test

m

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

f The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test. e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

Hematology Summary

		Ľ-	0 1	1	2	е	7	14
			Reti	Reticulocytes (	( <del>,</del> 9			
HS / 16	1.38			1.03	1.27	1.18	1.27	2.00dt
	±0.70	0.78	0.50	0.67	99.0	0.62	0.59	0.53
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
ES / 20	1.17		1.22	1.10	1.18	1.45	1.38	3.47
	±0.61	0.97	0.69	0.24	0.38	0.45	0.43	2.08
	(6)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
070 / 12	1.40		1.63	1.18	1.48	0.87	0.95	1.380
	±0.46	1.61	06.0	0.76	0.93	0.31	0.51	0.85
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 16	1.37		0.95	77.0	1.43	0.72	0.77	.86.0
	±0.69	0.40	09.0	0.29	0.44	0.19	0.37	0.44
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20	1.57		0.83	06.0	0.92	0.80	0.70	$1.28^{\rm e}$
-	±0.35	0.95	0.16	0.52	0.42	0.35	0.33	0.88
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the c value is significantly different from the group baseline (Day 0) at  $p \approx 0.05$  using the Dunnatt's test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

f The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

	g O	r-7	0	1 1	2	Э	7	14
		Po	Polymorphonuc	clear Granu	locytes (%)	<u></u>		
RL / 20	66.7	69.2	73.0	66.8	70.2	8.99	68.3	62.3
	49.7	9.6	3.2	11.9	0.6	5.0	6.2	7 9
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 12	0.69	70.8	8.69	70.3	74.2	8.69	72.3	78.3
	46.9	8.4	5.4	5.6	7.3	5.9	3.7	5.1
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
91 / USH	67.5	64.5	69.0	68.5	70.5	73.8	69.3	75.3
	1.6.3	5.2	7.6	6.1	5.0	6.3	0.9	^: æ
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 20	72.5	67.7	64.7	70.0	72.3	72.2	73.8	75.8
	+7.8	7.8	4.7	6.2	7.6	7.8	7.0	8.9
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 12	63.5	65.7	62.3	58.5	63.8	61.7	8.09	65.5
	8.6+	7.9	4.6	10.1	6.2	11.6	9.9	9.9
	(6)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses. b Prequarantine sample.

TABLE 6 (cont.)

Hematology Summary

(ml/kg/day)	a O	L-	0	1	2	3	7	14
		Pc	lymorphonu	Polymorphonuclear Granulocytes		(%)		
HS / 16	64.3	68.3	68.3	0.99	67.5	68.8	64.5	65.0
	±11.3	15.2	12.6	9.8	10.3	16.3	11.0	9.5
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 20	63.8	71.3	0.79	73.7	70.7	72.0	67.8	70.2
	±6.2	4.6	10.7	0.9	0.6	2.9	8.4	5.2
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 12	65.5	63.7	60.7	67.3	70.5	70.3	61.2	2.69
	±7.4	8.8	4.5	5.9	5.5	10.9	8.1	6.7
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 16	67.3	67.8	70.5	66.5	67.3	68.5	66.5	73.3
	17.7	12.2	5.7	10.9	5.6	4.5	13.3	10.3
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20	68.7	66.5	59.8	68.2	68.7	71.8	66.7	71.3
	48.0	9.5	7.7	10.5	11.0	9.5	8.7	7.7
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

<sup>a</sup> Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses. <sup>b</sup> Prequarantine sample.

TABLE 6 (cont.)

### Summary Hematology

Group/Dose (ml/kg/day)	φŌ	۲-	0	Study Day 1	2	ю	7	14
			Immature Neu	utrophils (	%) - Males			
RL / 20	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0
	+0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 12	0.3	0.0	0.0	0.0	0.0	0.7	0.34	0.0
	<del>10.6</del>	0.0	0.0	0.0	0.0	1.2	9.0	0.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 16	0.3	0.0	0.0	0.0	0.3	7.0	0.0	0.3
	<del>+</del> 0.6	0.0	0.0	0.0	6.6	1.2	0.0	9.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 20	0.3	0.3	7.0	0.3	0.0	0.0	0.04	0.0
	∓0.6	9.0	9.0	9.0	0.0	0.0	0.0	0.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HS / 12	0.0	0.3	0.7	0.0	0.0	0.3	0.0	0.0
	70.0	9.0	9.0	0.0	0.0	9.0	0.0	0.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

<sup>c</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

d The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

e The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

Group/Dose (ml/kg/day)	ąŌ	۲-	0	Study Day	5	æ	7	14
		Ι	Immature Ne	utrophils (	%) - Males			
HS / 16	0.0		0.0	0.0	0.0	0.0	0.700	0.3
	±0.0 (3)	0.6	0.0	0.0	0.0	0.0	0.6	0.6
HS / 20	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0
	±0.0 (3)	0.0	0.0	0.0	0.0	0.0	0.6	0.0
D70 / 12	7.0		0.3	0.0	0.0	0.3	0.04	0.0
	₹0.6	0.0	9.0	0.0	0.0	9.0	0.0	0.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
D70 / 16	1.0	0.0	0.0	0.0	0.7	0.0	1.700	0.3
	±1.0 (3)	0.0	0.0	0.0	1.2	0.0	1.2	0.6 (3)
D70 / 20	0.3	0.0	0.0	0.0	0.0	0.0	0.74	0.0
	±0.6 (3)	0.0	0.0	0.0	0.0	0.0	0.6	0.0

<sup>4</sup> Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

c The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at  $p \approx 0.05$  using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

Group/Dose (ml/kg/day)	٩Ō	۲-	0	Study Day	5	m	7	14
		Im	mature Neu	trophils (%)	– Femal	s ə		
RL / 20	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.3
	₹0.0	0.0	9.0	0.0	9.0	0.0	0.0	9.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	+0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 16	0.3	0.0	0.0	0.0	0.0	0.7	0.0	0.0
	+0.6	0.0	0.0	0.0	0.0	9.0	0.0	0.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 20	0.0		0.3	0.0	0.0	0.3	0.0	0.7
	<del>1</del> 0.0	9.0	9.0	0.0	0.0	9.0	0.0	1.2
	(3)		(3)	(3)	(3)	(3)	(3)	(3)
HS / 12	0.0		0.3	0.0	0.0	0.7	0.0	0.3
	<del>1</del> 0.0	0.0	9.0	0.0	0.0	9.0	0.0	9.0
	(3)		(3)	(3)	(3)	(3)	(3)	(3)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses. <sup>b</sup> Prequarantine sample.

TABLE 6 (cont.)

Hematology Summary

(ml/kg/day)	ą O	-7	0	otuay bay 1	2	m	7	14
		mI	mature Neu	trophils (%	s) - Female	S		
HS / 16	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0
	+0.0	0.0	0.0	0.0	0.0	9.0	9.0	0.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HS / 20	1.3	0.0	0.3	0.0	0.0	0.0	1.0	0.0
	70.€	0.0	9.0	0.0	0.0	0.0	1.0	0.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
D70 / 12	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.0
	+0.0	0.0	0.0	0.0	9.0	9.0	9.0	0.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
D70 / 16	0.3	0.0	0.7	0.0	0.3	0.0	0.0	0.0
	±0.6	0.0	1.2	0.0	9.0	0.0	0.0	0.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
D70 / 20	0.0	0.3	0.3	0.3	0.0	0.7	0.0	1.0
	+0.0	9.0	9.0	9.0	0.0	1.2	0.0	9.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses. <sup>b</sup> Prequarantine sample.

TABLE 6 (cont.)

## Summary Hematology

Group/Dose (ml/kg/day)	ąO	L-	0	Study Day	2	æ		14
			Eos	Eosinophils (	(%)			
RL / 20	2.3	1.8	2.3	2.3	3.5	2.3	1.7	2.8
	±2.6 (6)	0.8 (6)	2.3 (6)	1.8	(6)	(6)	(9)	(9)
HSD / 12	2.5	2.0	1.0	1.7	2.3	1.3	1.7	1.3
	±1.4	2.1	6.0	1.8	2.5	0.5	1.8	2.0
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 16	2.5	3.2	2.5	2.3	4.5	3.3	2.2	3.3
	±1.4	2.4	3.5	2.4	3.0	2.5	1.8	2.9
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 20	0.7	2.3	1.3	2.5	1.2	1.5	1.5	1.5
	±0.8	1.9	1.0	2.8	1.5	1.4	1.9	1.5
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 12	1.7	4.3	2.3	2.3	2.2	1.3	1.5	2.2
	±1.4	2.7	2.2	1.5	2.9	0.5	1.0	1.5
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses. <sup>b</sup> Prequarantine sample.

TABLE 6 (cont.)

Hematology Summary

Group/Dose (ml/kg/day)	QΟ	L-	0	study Day	2	3	7	14
			Eos	Eosinophils (	(%)			
HS / 16	1.3	2.0	1.7	1.3	1.8	1.2	1.0	1.2
	±1.2		2.3	1.5	1.7	1.2	1.5	1.0
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 20	1.7		2.0	1.7	1.7	2.0	2.3	1.5
	±1.2	2.2	2.7	1.5	1.2	2.3	1.6	1.0
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
070 / 12	3,5	<b>89.</b> E	3.0	3.2	3.3	4.3	5.5	4.3
) ) )	+2.3	3.2	2.3	1.2	2.1	3.3	2.3	4.1
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
070 / 16	1.3	2.0	1.8	2.0	2.3	2.7	3.0	3.3
	+1.6	2.0	2.3	3.2	2.3	2.9	2.9	2.7
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20	1.0	1.2	3.2	2.0	1.5	0.8	2.8	3.5
)  -  -	6.0+	1.2	2.9	1.7	1.6	1.2	2.3	1.2
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

a Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses. b Prequarantine sample.

TABLE 6 (cont.)

Hematology Summary

<pre>Group/Dose (ml/kg/day)</pre>	qO	L-	0	Study Day	2	m	7	14
			Bč	asophils (%)				
RL / 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
	±0.0 (6)	0.0	0.0	0.0	0.0	0.0	0.0	6) (6)
HSD / 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	+0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	+0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	+0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 12	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
	±0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses. b Prequarantine sample.

TABLE 6 (cont.)

Hematology Summary

Group/Dose (ml/kg/day)	qŌ	L-	0	Study Day	2	Э	7	14
			Bč	Basophils (%	<u></u>			
HS / 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	+0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0∓	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
070 / 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
) }	+0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
070 / 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0+	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	+0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(9)	(9)	(9)	(9)	(9)	(9)	(ō)	(9)

<sup>a</sup> Data are presented as the mean t the standard deviation with the number of animals, n, in parentheses.
<sup>b</sup> Prequarantine sample.

TABLE 6 (cont.)

Group/Dose (ml/kg/day)	qO .	۲-	0	ocaay bay	2	е	7	14
			Lyn	Lymphocytes (	(%)			
RL / 20	26.0	23.3	20.2	27.2	21.5	27.3	24.7	28.2
	+6.9	10.6	7.0	11.8	8.4	8.9	5.5	7.3
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 12	22.8	23.7	25.8	24.7	18.5	25.0	21.2	16.00
	±3.7	7.2	4.2	6.1	6.2	5.9	4.8	4.3
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 16	74.7	25.0	25.2	26.2	21.3	17.2	23.3	16.8:
	±5.2	4.2	7.3	4.2	6.4	3.3	6.3	7.7
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 20	19.5	25.2	27.7	20.5	23.3	19.7	19.7	15.5
	+8.7	8.4	3.7	4.1	6.9	5.8	9.9	2.4
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 12	29.8	25.7	29.7	34.5	30.0	31.7	32.3	26.04
}	9.9+	7.0	5.4	8.5	6.3	9.6	9.9	7.8
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

a Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses.

b prequarantine sample.

c value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

(ml/kg/day)	qΟ	-7	0		2	ε.	7	14
			Lyn	Lymphosytes (	(2)			
HS / 16	29.7	26.3	26.2	28.0	27.2	25.2	30.2	26.70
	±12.7		9.8	9.7	11.2	10.2	11.6	7.4
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 20	27.8	22.7	26.7	20.2	24.3	21.5	23.7	22.24
	18.0	4.8	10.6	6.6	8.5	6.2	7.3	5.7
	(9)	(9)	(6)	(9)	(9)	(9)	(9)	(9)
D70 / 12	24.5	78.2	31.0	26.5	22.2	20.2	29.8	22.8
	+6.2	6.9	2.8	0.9	4.5	11.1	6.0	3.3
	(9)	(t)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 16	25.5	25.5	23.0	26.7	26.2	24.8	25.7	19.3
	±5.7	9.5	4.5	8.9	4.7	5.6	8.9	7.0
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20	23.2	26.5	32.7	25.2	23.8	23.0	26.0	22.0
	46.7	0.6	7.7	10.7	8.4	8.2	9.6	8.1
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

a Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

 $^{\circ}$  Value is significantly different from the group baseline (Day 0) at p=0.05 using the Dunnett's test.  $^{\circ}$  The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

uroup/pose (ml/kg/day)	aO	l	0	study Day	2	٣	7	14
			MC	Monocytes (%)				
RL / 20	4.3	2.8	æ. ⊙	2.5	2.7	2.7	3.3	4.7
	+1.9	0.8	5.4	1.8	2.6	2.7	1.0	1.6
	(9)	(9)	(9)	(9)	(6)	(9)	(9)	(9)
HSD / 12	3.7	2.5	1.8	2.8	3.8	2.7	3.8	3.5
	+3 -5	2.2	1.2	1.6	2.6	8.0	1.7	1.6
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
Al / NSH	4.2	4.7	2.3	8.1	3.2	2.8	4.0	3.8
	+2.3	1.8	2.0	1.6	2.5	2.1	1.4	1.9
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 20	4	2.7	3.5	5.5	2.5	4.2	4.5	3.3
2	+2.6	1.9	1.0	3.6	2.2	1.3	1.2	2.8
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
нς / 12	2.8	2.8	3.0	3.2	3.0	3.0	2.5	4.5
	+2.5	1.2	1.1	1.8	3.6	1.4	3.4	2.8
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheres. <sup>b</sup> Prequarantine sample.

TABLE 6 (cont.)

## Summary Hematology

Group/Dose (ml/kg/day)	a <sub>O</sub>	1-1	0	ocady bay	2	σ	7	14
			Ψ	Monocytes (%)				
HS / 16	3.2		1.8	3.2	2.5	2.7	2.5	4.3
	+2.5	1.5	1.8		0.8	2.3	1.6	2.2
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 20	3.5	3.2	3.0	2.8	2.5	3.2	3.5	5.3
•	±1.4	2.3	1.8	1.2	1.6	2.6	1.6	1.6
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 12	4.0	3.2	3.8	2.8	3.3	4.2	3.2	3.2
	±2.8	2.5	2.6	1.3	2.2	2.4	1.2	2.4
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 16	3.5	3.2	4.2	3.2	2.8	3.5	3.2	3.0
	±1.8	0.8	1.8	2.1	1.9	2.3	5.6	2.1
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20	3.5	3.5	3.2		4.5	3.3	3.2	2.2
	±2.1	2.5	1.7	0.5	4.7	2.9	2.6	1.0
	(9)		(9)	(9)	(9)	(9)	(9)	(9)

<sup>a</sup> Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses. <sup>b</sup> Prequarantine sample.

TABLE 6 (cont.)

Group/Dose (ml/kg/day)	ąŌ	۲-	0	Study Day	2	3	7	14
			Atypical Ly	/mphocytes (	%) - Males			
RL / 20	1.0 ±0.0 (3)	1.7	1.7 1.2 (3)	1.0	2.0 2.0 (3)	1.0	1.3 2.3 (3)	0.0
HSD / 12	2.3 ±2.5 (3)	0.3 0.6 (3)	2.7 3.1 (3)	0.3 0.6 (3)	2.0 1.0 (3)	1.0 <sup>d</sup> 1.0 (3)	0.7 0.6 (3)	0.0
HSD / 16	0.7 ±1.2 (3)	4.0 2.6 (3)	1.3 1.2 (3)	2.3 1.5 (3)	0.7	4.0 <sup>ce</sup> 0.0 (3)	2.0 2.0 (3)	0.7 0.6 (3)
HSD / 20	0.7 ±0.6 (3)	2.0 2.6 (3)	1.3 2.3 (3)	0.7	0.3 0.6 (3)	2.0 <sup>d</sup> 2.0 (3)	0.7	0.7 0.6 (3)
нѕ / 12	1.7 ±2.1 (3)	1.7 0.6 (3)	1.3 0.6 (3)	1.7 1.5 (3)	1.0	1.3 <sup>d</sup> 0.6 (3)	1.7	0.7

a Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

c The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = .0.05 using the Student-Newman-Keuls multiple range test.

d The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

e The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

Group/Dose (ml/kg/day)	q O	۲-	0	Study Day	7	e .	7	14
		7	Atypical Ly	mphocytes (	%) - Males			
HS / 16	1.7	1.7	3.0	0.7	0.3	3.3ce	1.7	3.0
	±2.1	9.0	3.5	9.0	9.0	1.5	1.5	3.6
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HS / 20	3.7	1.7	1.7	1.3	1.7	0.79	2.0	1.3
	±3.5	1.2	2.9	9.0	9.0	9.0	3.5	9.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
D70 / 12	1.7	7.0	1.3	0.0	0.3	0.74	0.0	0.0
	±2.9	1.2	1.5	0.0	9.0	9.0	0.0	0.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
D70 / 16	2.0	1.3	0.3	2.7	1.0	1.0ce	1.0	1.0
	±1.7	9.0	9.0	2.5	1.0	1.0	1.0	1.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
D70 / 20	4.0	2.0	2.0	2.3	1.7	1.09	2.0	0.3
	±1.0	2.0	5.6	2.3	1.5	1.0	1.0	9.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

c The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

e The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

Group/Dose (ml/kg/day)	٥٥	-7	0	Study Da;	5	ĸ	L	14
		At	Atypical Lym	mphocytes (%	) - Females	S		
RL / 20	0.3	4.0	1.3	1.3	2.0	0.7	2.6	3.3
	+0.6	1.0	2.3	1.5	1.0	9.0	2.0	3.5
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 12	1.3	1.7	0.3	0.7	0.3	0.7	1.04	1.7
	₹0.6	9.0	9.0	9.0	9 0	1.2	1.0	9.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 16	1.0	1.3	0.7	0.0	0.3	0.3	0.34	8.0
	±1.0	1.5	1.2	0.0	9.0	9.0	9.0	9.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 20	4.7	1.7	3.3	2.3	1.0	2.7	0.34	1.3
	±2.5	1.5	3.1	1.5	1.7	2.1	9.0	1.2
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HS / 12	2.0	7.0	3.0	1.3	1.0	2.3	a>0.4	2.7
	±2.6	1.2	2.6	1.2	1.7	2.3	2.0	1.2
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

c The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

,	<sup>Q</sup>	L-	0	1	2	е	7	14
		At	Atypical Lym	phocytes (%	s) - Females	S		
HS / 16	1.0	7.0	1.0	2.3	1.7	0.7	1.3cc	2.3
	±1.0	1.2	1.0	9.0	2.9	1.2	1.7	3.2
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HS / 20	1.3	0.3	0.7	2.0	2.0	2.0	2.000	0.3
· · · · · · · · · · · · · · · · · · ·	+0.6	9.0	1.2	2.0	1.7	1.7	1.7	9.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
070 / 12	7.7	1.7	1.3	0.3	0.7	0.7	0.34	1.0
•	+2.5	1.5	1.5	9.0	1.2	1.2	9.0	1.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
D70 / 16	1.3	1.7	0.0	0.7	0.7	0.0	0.74	0.7
1	±1.5	2.1	0.0	1.2	1.2	0.0	9.0	1.2
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
070 / 20	3.0	2.3	0.0	1.7	1.3	0.3	0.04	1.0
•	±2.0	1.2	0.0	2.1	1.5	9.0	0.0	0.0
	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)

a Data are presented as the mean £ the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

# Hematology Summary demary

Group/Dose (ml/kg/day)	ąō	۲-	0	Study Day	2	3	7	14
		Nuc]	leated Red	Blood Cells	s (#/100 WE	WBC)		
RI. / 20	0.0	0.3		0.0	0.5	0.0	0.2	0.7
1	0.0+	8.0	0.8	0.0	1.2	0.0	0.4	1.2
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 12	0.3	0.0	0.2	0.0	0.3	0.2	0.29	0.34
, ,	6. O+	0.0	0.4	0.0	0.5	0.4	0.4	0.5
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
16 / USB	0		0.2	0.0	0.2	0.2	0.0	0.79
0.7 / 0.011	+0 +	5.0	0.4	0.0	0.4	0.4	0.0	0.5
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
HSD / 20	9.0	0.5	1.0	0.0	0.2	0.5	0.29	0.84
	+1 . 4	8.0	1.3	0.0	0.4	0.8	0.4	1.0
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
C1 / SH	C	0.0	0.5	0.3	0.2	0.3	1.2ce	0.7ce
77 / 611	0 0 +	0.0	1.2	0.8	0.4	0.8	1.3	1.6
	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

ᠬ m c The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

HS / 16 0.5 ±0.8 (6) HS / 20 0.0 ±0.0 (6) 070 / 12 0.0 ±0.0 (6) (6) 070 / 16 0.5 ±0.8	Nucl 0.5 0.8 (6)	eated Red 0.0 0.0 (6)	Blood Cells 0.5 0.8 (6)	(#/100 WB 0.5 0.8 (6) 0.5 0.8	WBC) 0.5 0.5 (6) 0.0	0.5°e	
	0.5	0.0	0.5 (6)	0.5 0.8 (6) 0.5	0.5 (6) 0.0	95°C	į
	8.0	0.0	0.8 (6) 0.0	0.8 (6) 0.5 0.8	0.5 (6) 0.0		1.500
	(9)	(9)	(9)	(6) 0.5 0.8	(9)	0.8	8.0
	,	0	0.0	0.5	0.0	(9)	(9)
	0.5	0.0		0.8		1.0ce	$1.5^{\mathrm{ce}}$
	0.4	0.0	0.0		0.0	1.3	2.5
	(9)	(9)	(9)	(9)	(9)	(9)	(9)
	0.2	0.0	0.0	0.0	0.3	0.04	0.24
	0.4	0.0	0.0	0.0	0.5	0.0	0.4
	(9)	(9)	(9)	(9)	(9)	(9)	(9)
	0.0	0.2	0.0	0.0	0.0	0.04	0.29
(9)	0.0	0.4	0.0	0.0	0.0	0.0	0.4
	(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20 0.5	0.0	0.2	0.3	0.0	0.2	0.24	0.34
	0.0	0.4	0.8	0.0	0.4	0.4	0.5
(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses

b Prequarantine sample.

 $\boldsymbol{\alpha}$ The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

Group/Dose				Study Day				
(ml/kg/day) Q <sup>b</sup>	q <b>o</b>	L-	0		5	m	7	14
		Pr	othrombin S	Prothrombin Time (seconds) - Males	ds) – Males	10		
RL / 20	ı	8.77	71.17	7.73	8.07	8.33	10.33	8.40
	ı	±1.17	1.37	0.93	1.25	1.42	2.66	1.71
		(3)	(3)	(3)	(3)	(3)	(3)	(3)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses. <sup>b</sup> Prequarantine sample.

ᠬ

TABLE 6 (cont.)

# Hematology Summary

HSD / 12 -	Pro 8.77 +2.05	thrombin T 8.83 0.71 (3)	Prothrombin Time (seconds) 8.83 8.03 0.71 0.90	1s) - Males 8.03 1.57 (3)	8.20 1.00 (3)	8.77 0.93	9.13 <sup>eh1</sup>
	8.77	8.83 0.71 (3)	8.03 0.90 (3)	8.03 1.57 (3)	8.20 1.00 (3)	8.77 0.93	9.13ehi 1.90
ı	```\	(3)	05.00	1.37	(3)	(3)	20.4
	(3)		101	•			(3)
HSD / 16 -	8.10	8.20	7.83	7.90	6.90 <sup>i</sup>	10.13	12.17ceqi
1	40.79	1.20	1.11	1.39	0.10	1.80	2.06
	(3)	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 20 -	9.80	8.27	8.73	8.13	12.17h	10.17	17.17ean
1	±2.46	1.29	1.10	1.68	5.78	2.22	6.01
	(3)	(3)	(3)	(3)	(3)	(3)	(3)

a Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses

Prequarantine sample.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the **Value** is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

HSD dose groups at  $p\approx 0.05$  using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at  $p \approx 0.05$  using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at  $p \approx 0.05$  using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

(cont.) TABLE 6

## Summary Hematology

Group/Dose (ml/kg/day) Q <sup>b</sup>	đ	۲-	0	Study Day	2	3	7	14
		Pro	othrombin '	Prothrombin Time (seconds) - Males	ds) - Male	S		
HS / 12	1 1	8.27 ±2.05	8.63	7.53	6.90	7.93	8.20	8.37dtni 2.98
HS / 16	1 1	(3) 9.43 ±3.10	(3) 7.67 1.29	(3) 7.20 0.72	7.73 1.10	(3) 4.63 <sup>i</sup> 2.98	7.37	(3) 8.20 <sup>dfgi</sup> 1.59
HS / 20	1 1	(3) 8.93 ±1.27 (3)	(3) 7.67 0.50 (3)	(3) 7.20 1.91 (3)	(3) 7.37 1.16 (3)	(3) 8.27h 1.51 (3)	(3) 7.43 0.96 (3)	(3) 9.13atal: 1.45 (3)

Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses

Prequarantine sample.

Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at  $p \approx 0.05$  using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

Group/Dose (ml/kg/day) Q <sup>D</sup>	ð	-7	0	Study Day	2	m	7	14
		Pr	Prothrombin	Time (seconds) - Males	ls) - Male	S		
D70 / 12	ł I	9.10 ±2.01 (3)	8.67 1.06 (3)	7.93 0.90 (3)	8.37 1.45 (3)	7.80 0.89 (3)	8.37 0.49 (3)	9.03ehi 1.57 (3)
D70 / 16	f f	8.50 ±1.93 (3)	7.93 0.46 (3)	8.17 0.76 (3)	7.50 1.14 (3)	8.33 <sup>i</sup> 1.19 (3)	9.93 0.51 (3)	11.00 <sup>egi</sup> 1.32 (3)
D70 / 20	f f	8.97 ±1.36 (3)	7.87 1.33 (3)	8.10 0.96 (3)	8.53 1.40 (3)	7.63 <sup>n</sup> 1.69 (3)	10.03 2.24 (3)	14.93 ceah 4.24 (3)

Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses

Prequarantine sample.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 Value is significantly different from the group baseline (Day 0) at p=0.05 using the Dunnett's test. HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

m

æ

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test. mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

<pre>Group/Dose (ml/kg/day)</pre>	ą	L-	0	Study Day	2	e l	7	14
		Pro	Prothrombin Ti	Time (seconds)	s) - Females	8 8		
RL / 20	1 1	8.67	8.37	8.60	27.97	8.40	8.50	9.17
	ŀ		(3)	(3)	(3)	(3)	(3)	(3)
HSD / 12	ı		5.67	8.00	8.73	8.70	7.57	9.57de
	ı	±0.21	4.02	1.74	1.55	0.44	0.81	2.06
		(3)	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 16	1	8.13	8.07	7.77	7.80	8.77	9.23	11.4700
	1		06.0	0.93	2.12	2.00	0.68	3.01
		(3)	(3)	(3)	(3)	(3)	(3)	(3)
HSD / 20	1		7.73	8.63	9.23	9.03	10.67	10.604
	ı	+0.50	1.29	1.44	1.69	1.39		1.15
		(3)	(3)	(3)	(3)	(3)		(3)
HS / 12	1		8.00	8.53	8.53	9.20	7.67	8.27ce
	ı	+0.70	0.92	1.67	1.62	0.69	1.36	1.07
		(3)	(3)	(3)	(3)	(3)	(3)	(3)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

<pre>Group/Dose (ml/kg/day)</pre>	å	1-	0	Study Day 1	2	т	7	14
		Prot	Prothrombin Ti	Time (seconds)	s) - Females	S		
HS / 16	ı	7.83	7.80	7.07	7.80	8.40	9.60	8.17ce
	1	±0.85 (3)	0.53 (3)	1.03	(3)	(3)	(3)	(3)
HS / 20	1	7.93	7.43	8.60	8.70	8.10	7.23	7.67ce
•	ł	±0.75	1.18	1.56	1.85	1.21	1.32	96.0
		(3)	(3)	(3)	(3)	(3)	(3)	(3)
070 / 12	1	8.70	7.97	8.20	8.73	9.27	8.90	13.63cd
	1	±1.01	1.19	1.44	1.42	0.12	0.17	2.50
		(3)	(3)	(3)	(3)	(3)	(3)	(3)
070 / 16	1	8.33	8.60	8.83	6.67	8.47	9.20	$12.50^{\mathrm{cd}}$
	ļ	±0.76	1.21	1.15	3.76	1.10	0.62	2.18
		(3)	(3)	(3)	(3)	(3)	(3)	(3)
D70 / 20	J	1.17	7.33	8.87	8.83	9.40	11.17	13.63cd
	J	±0.25	1.14	1.62	1.15	1.65	2.35	2.23
		(3)	(3)	(3)	(3)	(3)	(3)	(3)

a Data are presented as the mean I the standard deviation with the number of animals, n, in parentheses

b Prequarantine sample.

c The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the  $^3$  HS dose groups at p=0.05 using the Student-Newman-Keuls multiple range test. e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at  $p \approx 0.05$  using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)

Group/Dose (ml/kg/day)	qO	۲-	0	Study Day 1	5	m	7	14
		Activated	Partial	Thromboplastin	in Time	(seconds)		
RL / 20	; 1	16.23 ±2.70 (6)	14.85 1.03 (6)	15.40 1.37 (6)	15.73 1.80 (6)	16.43 1.30 (6)	16.47 1.99 (6)	16.68 3.27 (6)
HSD / 12	1 1	15.55 ±2.09 (6)	12.95 5.96 (6)	15.20 0.80 (6)	16.35 1.73 (6)	16.48 2.30 (6)	18.15 <sup>1</sup> 2.59 (6)	20.97°¹ 6.94 (6)
HSD / 16	i j	15.68 ±1.11 (6)	16.27 1.80 (6)	17.23 1.41 (6)	16.78 1.64 (6)	17.80 1.41 (6)	22.57 <sup>··</sup> : 5.04 (6)	26.77·** 7.13 (6)
HSD / 20	1 !	15.55 ±1.29 (6)	15.47 1.07 (6)	16.08 1.91 (6)	17.52 1.36 (6)	18.94 2.41 (5)	21.80°: 1.81 (6)	21.80°°° 4.38 (5)
HS / 12	1 1	17.97 ±3.29 (6)	16.95 2.41 (6)	15.80	17.70 2.30 (5)	16.70	17.35 <sup>†</sup> 2.18 (6)	18,27 <sup>41</sup> 4,15 (6)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentleses.

b Prequarantine sample.

m d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the c Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

e The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HSD dose groups at p=0.05 using the Student-Newman-Keuls multiple range test. HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

f The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at  $p \approx 0.05$  using the Student-Newman-Keuls multiple range test.

(cont.) TABLE 6

### Summary Hematology

Group/Dose (ml/kg/day)	φÖ	L-	0	Study Day	5	3	7	14
		Activated	Partial	Thromboplastin Time	tin Time	(seconds)		i
HS / 16	i 1	17.77	15.28	15.38	16.65	15.93	17.47!	18.20 <sup>dt</sup> 4.27
		(9)	(9)	(9)	(9)	(9)	(9)	(9)
HS / 20	I	15.28	16.17	15.23	16.75	15.45	18.321	17.7541
	I	(6)	(6)	7 · / 0 (6)	(9)	(6)	3.37	(6)
D70 / 12	1	16.60	15.55	15.93	17.75	17.38	21.55°°	30.52de
	i		1.93	1.89	3.76 (6)	5.33 (6)	3.34 (6)	8/. (7) (5)
D70 / 16	i i	16.22	16.63	16.32	19.77	19.32	23.90°de 3.56	28.62 <sup>cde</sup> 4.75
		(9)	(9)	(9)	(9)	(9)	(9)	(9)
D70 / 20	ŀ	14.30	15.63	16.90	17.33	20.12	27.07de	38.33de
	I	• ~	(6)	3.14	(6)	(6)	6.24	(3)

<sup>a</sup> Data are presented as the mean 1 the standard deviation with the number of animals, n, in parentheses.

b Prequarantine sample.

d The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the <sup>c</sup> Value is significantly different from the group baseline (Day 0) at  $p\approx 0.05$  using the Dunnett's test. HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the D70 dose groups at p=0.05 using the Student-Newman-Keuls multiple range test. The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

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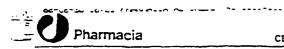
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### Appendix A: CHEMICAL DATA



CERTIFICATE OF ANALYSIS 1988-06-27

6 % Dextran 70 in 7,5 % Sodium Chloride Injection

Charge No. OD 59331

Identification
Inhorent viscosity
Absorbance

Absorbance pH Heavy metals passed test 26 ml/g 0,009 5,2 < 5 ppm

Assay for

- Sodium chloride - Dextran 70 75 g/1000 ml 59 g/1000 ml

Particulate matter Sterility Pyrogens

passed test passed test passed test

Realesed for clinical trials.

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Analytical Chemistry Department

Tord Jonsson

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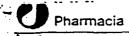
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Appendix A (cont.): CHEMICAL DATA



CERTIFICATE OF ANALYSIS 1988-06-27

7,5 % Sodium Chloride

Charge No. OD 59339

pH Heavy metals

6,2 < 5 ppm

Assay for

- Sodium chloride

71 g/1000 ml

Particulate matter Sterility Pyrogens

passed test passed test passed test

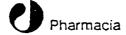
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Appendix A (cont.): CHEMICAL DATA



Certificate of Analysis

Name MACRODEX 60 mg/ml in Normal Saline

Item No.: 10-4510-00

Charge No.: OD 59340

Test	Result	Tolerance limit	Control method
Inherent viscosity ml/g	26	25 - 28	03700
Colour	0.01	Max. 0,04	03811
рН	4.9	4,0 - 7,0	USP XX p. 968
Heavy metals ppm	< 5	Max. 5	USP XX p. 909
Assay for			
- sodium chloride g/1000 ml	8.86	8,10 - 9,90	02355
- dextran 70 g/1000 ml	59	54 - 66	02356
Sterility	Passed test	To pass test	02885
Pyrogens	Passed test	To pass test	02983

The identity is assured through strict adherence to established GMP rules throughout the manufacturing procedures.

Released for sale: 1988-04-19

fM09

Pharmacia AB Quality Control Departmen

Jan Mazur

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Appendix A (cont.): CHEMICAL DATA

Pharmacia

Certificate of analysis

Name: MACRODEX 60 mg/ml in Normal saline

Item No.: 10-4510-00

Lot No.: NE 54941

Test		Result	Tolerance limit	Method
Inherent viscosity Colour pH Heavy metals ppm Assay for - sodium chloride - dextran 70 Steriity Pyrogens	ml/g g/1000mi g/1000mi	26 0.01 4,9 < 5 8,88 59 Passed test Passed test	25 - 28 Max. 0,04 4.0 - 7.0 Max. 5 8,10 - 9,90 54 - 66 To pass test To pass test	03700 03811 USP XX p. 968 USP XX p. 908 02355 02356 02885 02983

The identity is assured through strict adherence to established GMP rules throughout the manufacturing procedures.

Released for sale: 1987-05-25

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M09

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Appendix A (cont.): CHEMICAL DATA



CERTIFICATE OF ANALYSIS 1988-06-27

Lactated Ringer's Insection

Charge No. OD 59336

Identification pH Heavy metals

passed test 5,8 < 5 ppm

Assay for

- Sodium - Potassium - Calcium - Chloride

- Lactate

Particulate matter Sterility Pyrogens

121 mmol/1000 ml 3,72 mmo1/1000 ml 1,32 mmol/1000 ml 104 mmol/1000 ml 26,3 mmol/1000 ml

passed test passed test passed test

Realesed for clinical trials.

Pharmacia AB

**Analytical Chamistry Department** 

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## Appendix A (cont.): CHEMICAL DATA

Pharmacia

CERTIFICATE OF ANALYSIS 1989-12-19

LACTATED RINGER'S INJECTION

Charge No. NC 54847

pН

5,8

Heavy metals

< 5 ppm

Sodium

127 mmol/1000 ml

Potassium

3,91 mmo1/1000 ml

Calcium

1,30 mmol/1000 ml

Chloride

105,5 mmol/1000 ml

Lactate

27,2 mmol/1000 ml

Particulate matter

passed test

Sterility

passed test

Pyrogens

passed test

Released for clinical trials.

Pharmacia AB

Analytical Chemistry Department

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### Appendix B: ANIMAL DATA

Species: Canis familiaris

Strain: Beagle

Source: Hazleton-LRE

6321 South 6th St. Kalamazoo, MI 49009

Sex: Male and female

Month of birth: April - July 88

Method of randomization: Weight bias, stratified animal allocation (XYBION Medical Systems PATH/TOX AESLCT Program)

Animals in each group: 3 males and 3 females

Condition of animals at start of study: Normal

Body weight range at dosing: Males 10.00 - 14.10 kg

Females 9.10 - 12.80 kg

Identification procedures: Supplier ear tattoo with corresponding LAIR animal number

Pretest conditioning: Quarantine/acclimation 13 January to 30 January 1989 and 22 February to 6 March 1989, Phase I and II, respectively

Justification: The beagle dog is a standard laboratory model for subacute toxicity studies and is accepted by all regulatory agencies.

# Appendix C: HISTORICAL LISTING OF STUDY EVENTS

### <u>Phase I</u>

Date	<u>Event</u>
12 Jan 89	Phase I animals arrived. They were sexed, observed for illness, and caged in the GLP Suite. Forty-one animals were assigned to the study.
17, 30 Jan 89	Quarantine physical examinations and heartworm tests were performed.
17, 18, 19 Jan 89	Fecal analyses for parasitic ova were performed.
12 Jan - 21 Feb 89	Phase I animals were observed twice daily.
17, 24, 30, 31 Jan; 6, 7, 8, 14, 15, 21, 22 Feb 89	Phase I animals were weighed.
19, 24, 31 Jan; 1-15, 21, 22 Feb 89	
17, 24, 25, 31 Jan; 1, 2, 3, 4, 7, 8, 9, 10, 11, 14, 15, 21, 22 Feb 89	Blood was collected for hematology and clinical chemistry analyses, Phase I animals.
22 Jan 89	Phase I animals were randomized into dose groups.
30, 31 Jan; 6, 7, 13, 14, 20, 21 Feb 89	Ophthalmic examinations were performed. for Phase I animals.
31 Jan - 21 Feb 89	Phase I animals were dosed beginning at approximately 0830 hours. Observations were conducted before and 1 hr after dosing, and in the pm.
14, 15, 21, 22 Feb 89	Phase I animals were delivered to the Necropsy Suite for blood sampling, euthanasia, and necropsy.

# Appendix C (cont.): HISTORICAL LISTING OF STUDY EVENTS

### Phase II

Date	Event
22 Feb 89	Phase II animals arrived. They were sexed, observed for illness, and caged in the GLP Suite. Thirty-one animals were assigned to the study.
23 Feb, 6 Mar 89	Quarantine physical examinations and heartworm tests were performed.
23, 24, 27 Feb 89	Fecal analyses for parasitic ova were performed.
23 Feb - 28 Mar 89	Phase II animals were observed twice daily.
23, 28 Feb; 6, 7 13-15, 21 22, 28, 29 Mar 89	Phase II animals were weighed.
28 Feb; 7-22, 28, 29 Mar 89	Water consumption was monitored for Phase II animals.
23, 28 Feb; 1, 7-11, 14-18, 21, 22, 28, 29 Mar 89,	Blood was collected for hematology and clinical chemistry analyses, Phase II animals.
27 Feb 89	Phase II animals were randomized into dose groups.
6, 7, 13, 14, 20, 21, 27, 28 Mar 89	Ophthalmic examinations were performed.
7-28 Mar 89	Phase II animals were dosed beginning at approximately 0830 hours. Observations were conducted before and 1 hr after dosing, and in the pm.
21, 22, 28, 29 Mar 89	Phase II animals were delivered to the Necropsy Suite for blood sampling, euthanasia, and necropsy.

# Appendix D: INDIVIDUAL ANIMAL HISTORIES

Study Start Date: 07-Feb.89   Study Day/Inm Operation	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129	RES SUF	DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129	SERV GP	SEARC 94129	F -	₩ <b>2</b> 4	2002	רוארון	Kaw Data Listings of Linical Signs without masses Study Number: 88008M Data Listing by Animal	PRINIED: US-UCT-69 Page: 1
Animal Sex/group Date and Time Study Day/time Oper Mumber /Subgroup Date was Entered Data was Taken # Clinical Signs / Comme	0G/8EA	: ن س		,	;		,	,	Stud	ly Start Date: 07-Feb-89	/ara- variation / ara-
14:50 1		Animal	Sex/group /Subgroup	Date Date		Time	Study Data w	Day/tin as Take			
14:54 1 / 09:56 9 inactive, slight vomiting tremors, moderate 15:02 1 / 15:02 9 inactive, moderate 15:08 2 / 09:00 9 soft stool, moderate vomiting tremors, moderate vomiting tremors, moderate vomiting tremors, moderate 18:32 3 / 14:16 9 inactive, moderate vomiting tremors, slight tremors, solight tremors, solight 19:35 9 soft stool, moderate vomiting tremors, severe 19:09:02 5 / 08:23 9 soft stool, moderate vomiting tremors, severe vomiting tremors, severe 19:09:02 5 / 08:23 9 soft stool, moderate 19:09:04 5 / 11:01 9 vomiting tremors, severe 19:09:05 5 / 08:23 9 soft stool, moderate 19:09:06 5 / 11:01 9 vomiting tremors, severe 19:09:06 6 / 09:00 9 soft stool, moderate 19:09:06 6 / 10:19 9 inactive, slight 19:09:06 6 / 10:19 9 inactive, slight 10:09:06 6 / 10:10 9 inactive, slight 10:09:06 6 / 10:10 9 inactive, slight 10:09:06 6 / 10:09:09 9 inactive, slight 10:09:09 9 inactive, slight 10:09:09 9 inactive, slight 10:09	1 89	A00012	M/ 1/2	05-MBY	:	14:50	-	/ 08:53	:		
15:02				05-May	- 89	14:54		7 09:56			
15:02										VOB: ting	
15:08  15:18  2 / 10:18  9 inactive, moderate vomiting tremors, moderate vomiting tremors, moderate tremors, moderate tremors, moderate tremors, moderate solds: 2 / 14:16  08:24  2 / 14:16  9 inactive, slight tremors, moderate vomiting tremors, slight tremors, slight tremors, slight tremors, slight tremors, slight tremors, severe vomiting tremors, severe tremors, severe tremors, severe tremors, slight tremors, severe tremors, slight tremors, severe tremors, severe disoriented, slight tremors, severe tremo				05-May	-89	15:02		50:31 /		inactive, slight	
15:18 2 / 09:00 9 soft stool, moderate 15:12 2 / 10:18 9 inactive, moderate vomiting tremors, moderate tremors, moderate 16:24 2 / 14:16 9 inactive, slight tremors, moderate 08:39 3 / 08:50 9 soft stool, moderate vomiting tremors, slight 08:44 4 / 11:36 9 inactive, slight 08:57 4 / 11:36 9 inactive, moderate vomiting tremors, slight 109:02 5 / 08:23 9 soft stool, moderate 109:04 5 / 11:01 9 vomiting tremors, severe disoriented, slight tremors, moderate tremors, moderate tremors, moderate tremors, moderate tremors, moderate tremors, moderate										tremors, moderate	
15:12				05-May	68-	15:08	7	00:60 /		-	
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08:24 2 / 14:16 9 08:29 3 / 08:50 9 08:38 3 / 14:30 9 08:44 4 / 11:36 9 08:45 4 / 14:00 9 09:02 5 / 08:23 9 09:02 5 / 08:23 9 09:02 5 / 08:23 9 09:04 5 / 14:33 9										vomiting	
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08:38 3 / 14:30 9 08:41 4 / 08:35 9 08:44 4 / 11:36 9 08:57 4 / 14:00 9 09:02 5 / 08:23 9 09:04 5 / 11:01 9 09:12 5 / 14:33 9 09:19 6 / 09:00 9 09:26 6 / 10:19 9										vomiting	
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08:41				08-May		08:38	m	/ 14:36		inactive, slight	
08:57				08-MBY		08:41	4	/ 08:35		soft stool, moderate	
08:57				08-May		77:80	4	/ 11:36		inactive, moderate	
08:57										vomiting	
09:02 5 / 08:23 9 09:02 5 / 08:23 9 09:04 5 / 11:01 9 09:12 5 / 14:33 9 09:19 6 / 09:00 9 09:26 6 / 10:19 9										tremors, severe	
09:02 5 7 08:23 9 09:04 5 7 11:01 9 09:12 5 7 14:33 9 09:19 6 7 09:00 9 09:26 6 7 10:19 9				08-May		08:57		7 14:00		inactive, slight	
09:12 5 / 14:33 9 09:19 6 / 09:00 9 09:26 6 / 10:19 9						0				tremors, slight	
09:04 5 / 11:01 9 vomiting inactive, moderate tremors, severe disoriented, slight 09:12 5 / 14:33 9 inactive, slight tremors, moderate 09:26 6 / 10:19 9 inactive, slight vomiting tremors, moderate tremors, moderate				08-May		20:60		/ 08:23		soft stool, moderate	
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disoriented, slight 09:12 5 / 14:33 9 inactive, slight tremors, moderate 09:19 6 / 09:00 9 soft stool, modera 09:26 6 / 10:19 9 inactive, slight vomiting tremors, moderate										tremors, severe	
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tremors, moderate 09:19 6 / 09:00 9 soft stool, modera 09:26 6 / 10:19 9 inactive, slight vomiting tremors, moderate				08-May		09:12	2	/ 14:33		inactive, slight	
09:19 6 / 09:00 9 soft stool, modera 09:26 6 / 10:19 9 inactive, slight vomiting tremors, moderate				,		•	•				
6 61:01 / 9 97:60				08-May		91:40	۰ م	)n:60 /		40	
vomiting tremors, moderate				08-May		09:50	٥	\$L:0L /			
tremors, modernate										Vomiting	
										Tremors, moderate	

HISTORIES
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(cont.):
Appendix D
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LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	MY INSTITUTUPP, PATH S	TE OF RESE	ARCH	Raw Data Li	istin	Without Masses	PRINTED: 03-Oct-89 Page: 2
PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	SAN FRANCI	sco, cA 94	621		Stud	Data Listing by Animal Study Start Date: 07-Feb-89	SUB-ACUTE/
Cage Anima	Animal Sex/group Date and Time Number /Subgroup Data was Entered	p Date and p Data was (	d Time Entered	Study Day/time Data was Taken	 o		
1 8940001	1 89A00012 M/ 1/2 08-May-89 09:42	08-May-89 09:42	9 09:42	6 / 14:27	6	tremors, moderate disoriented eliaht	1
		08-May-89 08-May-89	67:60 6 97:60 6	7 / 09:00	<b>о</b> о	soft stool, moderate soft stool, moderate	
						inactive, slight vomiting disorianted eliaht	
						tremors, moderate	
		08-May-89		7 / 14:45	Φ.	tremors, slight	
		08-May-80	9 10:03	× ×	» <i>о</i>	soft stool, slight vomiting	
				•		excessive thirst, moderate	
		08-May-89	9 10:14	8 / 14:25	٥		
						inactive, slight	
		:			(	tremors, moderate	
		U8-May-89	14:01	67:70 / 6	>	Inactive, siight	
						soft stool, moderate	
		08-May-89	9 10:46	6 / 09:43	٥	inactive, slight	
						tremors, slight	
						soft stool, moderate	
						excessive thirst, moderate	
		08-768-80	10.55	51.71.0	o	hunched posture, moderate	
		5			•	excessive thirst, moderate	
						hunched posture, slight	
		08-May-89	9 14:00	10 / 07:27	٥	tremors, moderate	
						excessive thirst, moderate	
		;				inactive, slight	
		08-May-89	9 14:05	10 / 10:38	•		
						excessive thirst, severe	
						Inactive, slight	
		;			,	soft stool, moderate	
		08-May-89	9 14:08	10 / 14:29	•	tremors, severe	
						inactive, slight	

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LETTERMAN ARMY INSTITUTE OF DIV OF RES SUPP, PATH SERV G PRESIDIO OF SAN FRANCISCO, C DOG/BEAGLE	S SUP!	INSTITUT P, PATH S H FRANCIS	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	₩ 62	œ	0 0 0	a Listi	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M Data Listing by Animal Study Start Date: 07-Feb-89	PRINTED: 03-0ct-89 Page: 3 SUB-ACUTE/
Cege An	mber	Sex/group /Subgroup	Cage Animal Sex/group Date and Time	Time	Study Data	Study Day/time Data was Taken	: 0		
1 8940	00012	1 89A00012 M/ 1/2	1 89A00012 M/ 1/2 08-May-89 14:1 08-May-89 14:1	14:15	: ==	11 / 09:55	55 90 90 90	inactive, slight inactive, slight vomiting tremore, slight excessive thirst	
			08-May-89	14:28	=	11 / 14:00	6 00	inactive, slight tremors, moderate excessive thirst	
			08-May-89	14:32	12	12 / 09:30	30 9		
			08-May-89	14:34	12	12 / 11:23	23 9	inactive, slight	
			08-May-89	14:37	12	12 / 14:00	6 00	inactive, slight	
			08-May-89	14:40	13	13 / 08:15	15 9	tack of appetite,	
			08-May-89	14:42	13	13 / 11:54	6 75	lack of appetite,	
			08-May-89	14:4	13	/ 14:10	10 9	u	
			08-May-89		14	/ 07:		lack of appetite, moderate excessive thirst, moderate	
			08-May-89		1,	14 / 09:23	23 9	excessive thirst,	
			08-May-89	14:57	14	/ 14:		•	
			08-May-89	15:01	15	/ 07:08	6 80	_	
2 89A0	89A00042	M/ 1/3	11-May-89	14:3	-	. 60 /		tremors, slight normal/no significant signs	
		•	11-Hay-89		-	/ 10:46	6 95		
								disoriented, moderate tremors, slight inactive, slight	
			3	,	•			excessive thirst,	
			11-May-89	14:46	- 2	/ 07:20	40 50 6	CACCESSIVE COLUSI, BOCOFISION DOTBE / NO SIGNIFICED A SIGNIFICED SIGNIFICED A SIGNI	

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AN ARMY INSTITUTE OF RESEARCH RES SUPP, PATH SERV GP O OF SAN FRANCISCO, CA 94129 GLE	TITUTE ATH SE ANCISC	MY INSTITUTE OF RESEARCIUPP, PATH SERV GP San Francisco, ca 94129	SEARC! 94129	I	~	3	ata Lis	sting S De Study	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M Data Listing by Animal Study Start Date: 07-Feb-89	PRINTED: 03-Oct-89 Page: 4 Sub-Acute/
ex/ Sub	ex/group Subgroup	Date Date K	end as En	Time	Study Day/time Data was Taken	udy Day/		Oper.	Clinical signs / Comments	
A00042 H/ 1/3	1/3	1/3 11-May-89 14:	. 65 . 80	14:50	. ~	2 / 10:40	t 1	· •	vomiting disoriented, moderate tremors, moderate inactive, slight salivation, moderate	
		11-May-89 11-May-89		14:57	~ m r		14:12 07:14	000	inactive, slight normal/no significant signs	
				2	1	•			disoriented, moderate tremors, moderate inactive, moderate exicessive thirst, moderate	
		11-May-89 11-May-89 11-May-89		15:16 15:23 15:26	M44	7 2 2 2	/ 14:00 / 09:10 / 10:39	000	sativation, sight normaline signs to mactive, slight vomiting vomiting disoriented, moderate inscrive, moderate accessive, thirst moderate	
		11-мау-89 12-мау-89 12-мау-89		15:33 08:16 08:31	41010	<b>``</b>	14:30 07:12 10:56	000		
		12-May-89 12-May-89 12-May-89		08:43 08:46 08:55	w 40.40	5 / 14:00 6 / 07:27 6 / 11:00	4:00 7:27 1:00	o o o	excessive thirst, slight salivation, slight salivation, slight normal/no significant signs vomiting disoriented, slight inactive, slight	
		12-May-89 12-May-89		09:02 09:06	91	6 / 15:29 7 / 07:50	5:29	00	excessive thirst, slight normal/no significant signs soft stool, moderate	

HISTORIES
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Appendix

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LETTE DIV 0	FRES SUI	LETTERMAN ARMY INSTITUTE OF REDIVERY GP	E OF RES	RESEARCH IP		3 6 8	Data Li	sting S	Raw Data Listings of Clinical Signs Study Number: 88008M	ins Without Masses 18M	7. 2.000 3.0	PRINTED: 03-Oct-89 Page: 5
000/8E	DOG/BEAGLE	PRESIDIO OF SAN TRANCISCO, CA 74:EV DOG/BEAGLE	, ca, ca,	671		:	1	Study	Study Start Date: 07-Feb-89	07-Feb-89		SUB-ACUTE/
0 # 0 #	< =	Animal Sex/group Date and Time Number /Subgroup Date was Entered	Date and Date was En	nd Time	:	udy Da ta was	e e	•	Clinical signs / Comments	s / Comments		
2	89.	89A00042 M/ 1/3 12-May-89 09:10	12-May-	89 09:	10	1 /	)		vomiting disoriented, moderate tremors, slight inactive, moderate			
			12. M. C.	75.00 08	75	`	14.55	0	excessive thirst, moderate salivation, moderate	, moderate ate		
			15-May-89		90	- 60	07:15	• •	normal/no significant	icant signs		
			15-Hay-	80 08:09	60	`	10:05	•	inactive, slight vomiting			
									disoriented, moderate excessive thirst, moderate	erate moderate		
			15-May-		17	•	14:53	٥	normal/no significant			
			15-May-89	89 08:22	22	6	07:20	<b>o</b> (	normal/no significant	icant signs		
			15-MBY-		51	_	10:03	>	inactive, slight			
									Vomiting Aichtine	4		
									disoriented, moderate salivation, moderate	and		
			15-Mey-89		48	6	14:00	٥	normal/no significant	icant signs		
			15-May-89		20	10 /	10 / 07:22	٥	normal/no significant			
			15-May-89	89 09:15	15	10 /	10:11	٥	inactive, slight			
									Vomiting			
									disoriented, moderate excessive thirst severe	Severe		
									Salivation, severe			
			15-May-89	89 09:22	22	_	14:07	6	normal/no significant	icant signs		
			15-May-89		32		07:26	٥	normal/no significant			
			15-May-		37	_	10:05	٥	inactive, slight			
									vomiting disoriented, moderate excessive thirst, moderate	rate moderate		
			1		ų	. :	36.74	o	Salivation, moderate	ote.		
			15-MBY-89 15-MBY-89 15-MBY-89	89 09:50 80 09:50	205	127	12 / 08:00	• • •	disoriented, stigni normal/no significant signs inactive, slicht	icant signs		
					,	•	1	•				

Lange Aniest Services   Res Recker   Rea Date Lietings of Clinical Signs Without Masses   Peggs 6   Date Litting by Aniest   BODGON				Aŗ	Appendix	dix	<u>م</u>	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
Study Start Date   07-feb-89	LETTER DIV OF	RES SUF	PP, PATH S	E OF RES	SEARCH		ž	W Data L	isting	s of Clinical Signs Without Masses study Number: 88008M	PRINTED: 03-Oct-89 Page: 6
Sandard   Time   Study Day/Time Oper   Clinical Signs / Comments	006/8E	AGLE	AN TARKI	, cA ,	K7   1						SUB-ACUTE/
### ### ### ##########################	0 #c	Animal	Sex/group /Subgroup	Date L	and s Ent	Time	Study Date	Day/time	0 pe r		
15-May-89 10:06 13 / 10:10 9 inactive, slight 15-May-89 10:06 13 / 10:10 9 inactive, slight 15-May-89 10:09 13 / 10:10 9 inactive, slight vomiting disoriented, slight vomiting disoriented, slight 15-May-89 10:14 13 / 15:45 9 normal/no significant 15-May-89 10:14 13 / 15:45 9 normal/no significant 15-May-89 10:13 14 / 10:19 9 excessive thirst, slight 15-May-89 10:13 15 / 10:19 9 excessive thirst, slight 15-May-89 10:13 15 / 10:19 9 excessive thirst, slight 15-May-89 10:13 15 / 10:19 9 excessive thirst, slight 15-May-89 10:13 15 / 10:19 9 excessive thirst, slight 15-May-89 10:13 15 / 10:19 9 excessive thirst, slight 15-May-89 14:17 1 / 10:19 9 excessive thirst, slight 15-May-89 14:17 1 / 10:19 9 normal/no significant 15-May-89 14:27 1 / 14:15 9 disoriented, moderate 15-May-89 14:27 1 / 14:15 9 disoriented, moderate 15-May-89 15:11 3 / 09:15 9 soft stool, slight 15-May-89 15:11 3 / 09:15 9 soft stool, slight 15-May-89 15:13 3 / 11:01 9 disoriented, moderate 15-May-89 15:13 3 / 11:01 9 disoriented, slight 15-May-89 15:13 3 / 14:30 9 disoriented, slight 15-May-89 15:13 3 / 14:30 9 disoriented, slight 15-May-89 15:13 4 / 10:20 9 normal/no significant 16-May-89 08:07 5 / 11:20 9 excessive thirst, moderate 16-May-89 08:07 5 / 11:20 9 excessive thirst, moderate 16-May-89 08:07 5 / 11:20 9 excessive thirst, moderate 16-May-89 08:07 5 / 11:20 9 excessive thirst, moderate 16-May-89 08:07 5 / 11:20 9 excessive thirst, moderate 16-May-89 08:07 5 / 11:20 9 excessive thirst, moderate 16-May-89 08:07 5 / 11:20 9 excessive thirst, moderate 16-May-89 08:07 5 / 11:20 9 excessive thirst, moderate 16-May-89 08:07 5 / 11:20 9 excessive thirst, moderate 16-May-89 08:07 5 / 11:20 9 excessive thirst, moderate 16-May-89 08:07 5 / 11:20 9 excessive thirst, moderate 16-May-89 08:07 5 / 11:20 9 excessive thirst, moderate 16-May-89 08:07 5 / 11:20 9 excessive thirst, moderate 16-May-89 08:07 5 / 11:20 9 excessive thirst, moderate 16-May-89 08:07 5 / 11:20 9 excessive thirst, moderate 16-May-89 08:07 5 / 11:20 9 excessive thirst, moderate 16-	2 8	19A00042		15-May-	) 68-	09:53	15	/ 11:02	6		
15-May-89 10:06 13 / 08:05 9 soft stool, slight vomiting disoriented, slight excessive thirst, seve salivation, moderate salivation significant 15-May-89 10:20 14 / 10:19 9 excessive thirst, slight significant salivation salivation significant salivation sa				15-May-		95:60	12	/ 16:52	٥	inactive, slight	
15-May-89   10:09   13 / 10:10   9   Inactive, slight				15-May-		90:01	13	/ 08:05	•	soft stool, slight	
15-May-89   10:14   13 / 15:45   9   normal/no significant   15-May-89   10:14   13 / 15:45   9   normal/no significant   15-May-89   10:23   14 / 10:19   9   excessive thirst, slig   15-May-89   10:23   14 / 10:19   9   excessive thirst, slig   15-May-89   10:23   14 / 10:19   9   excessive thirst, slig   15-May-89   10:23   14 / 14:56   9   pacing, slight   15-May-89   10:23   14 / 14:56   9   pacing, slight   15-May-89   14:22   1 / 11:03   9   vomiting   15-May-89   14:22   1 / 11:03   9   vomiting   15-May-89   14:52   2 / 07:18   9   vomiting   15-May-89   14:52   2 / 07:18   9   vomiting   15-May-89   14:52   2 / 11:16   9   vomiting   15-May-89   15:13   3 / 11:01   9   vomiting   15-May-89   15:13   3 / 11:01   9   vomiting   15-May-89   15:13   3 / 11:21   9   disoriented, slight   15-May-89   15:43   4 / 11:21   9   disoriented, slight   16-May-89   15:52   9   normal/no significant   16-May-89   08:03   5 / 11:20   9   normal/no significant   16-May-89   08:03   5 / 11:20   9   normal/no significant   16-May-89   08:01   5 / 11:20   9   normal/no significant   16-May-89   16:10   10:10				15-May		10:09	13	/ 10:10	•	Inactive, slight	
89A00058 M/ 1/4 15.45 9 normal/no significant 15-May-89 10:23 14 / 10:19 9 excessive thirst, selig 15-May-89 10:23 14 / 10:19 9 excessive thirst, slig 15-May-89 10:23 14 / 10:19 9 excessive thirst, slig 15-May-89 10:23 14 / 14:56 9 pacing, slight vomiting 15-May-89 14:27 1 / 10:30 9 normal/no significant 15-May-89 14:27 1 / 11:03 9 vomiting disoriented, moderate 15-May-89 14:22 1 / 11:03 9 vomiting 15-May-89 14:52 2 / 07:18 9 soft stool, slight 15-May-89 14:52 2 / 07:18 9 soft stool, slight 15-May-89 15:13 3 / 14:01 9 disoriented, moderate 15-May-89 15:13 3 / 11:01 9 disoriented, slight 15-May-89 15:15 3 / 14:30 9 disoriented, slight 15-May-89 15:15 3 / 14:20 9 soft stool, slight 15-May-89 15:35 3 / 14:30 9 disoriented, slight 15-May-89 15:35 4 / 07:20 9 soft stool, slight 15-May-89 15:35 4 / 11:21 9 disoriented, slight 15-May-89 15:35 4 / 11:21 9 disoriented, slight 15-May-89 15:35 4 / 11:21 9 disoriented, slight 15-May-89 15:35 4 / 11:20 9 soft stool, slight 15-May-89 15:35 4 / 11:20 9 soft stool, slight 15-May-89 08:03 5 / 07:20 9 normal/no significant 16-May-89 08:03 5 / 11:20 9 excessive thirst, mode 16-May-89 08:01 5 / 11:20 9 normal/no significant 16-May-89 08:07 5 / 11:20 9 normal/no significant 16-May-89 08:01 5 / 15:22 9 normal/no significant 16-May-89 08:01 5 / 15:										Vomiting disoriented, slight	
15-May-89 10:14 13 / 15:45 9 normal/no significant 15-May-89 10:20 14 / 07:23 9 excessive thirst, slig inactive, slight 15-May-89 10:23 14 / 10:19 9 excessive thirst, slig inactive, slight 15-May-89 10:28 14 / 14:56 9 percessive thirst, slight 15-May-89 10:31 15 / 08:00 9 normal/no significant 15-May-89 14:17 1 / 09:30 9 normal/no significant 15-May-89 14:27 1 / 11:03 9 vomiting disoriented, moderate 15-May-89 14:52 2 / 07:18 9 soft stool, slight 15-May-89 14:52 2 / 07:18 9 soft stool, slight 15-May-89 15:15 3 / 11:01 9 vomiting disoriented, moderate 15-May-89 15:15 3 / 11:01 9 vomiting disoriented, moderate 15-May-89 15:43 4 / 07:20 9 soft stool, slight 15-May-89 15:43 4 / 11:21 9 disoriented, moderate 15-May-89 15:53 4 / 11:20 9 soft stool, slight 16-May-89 08:03 5 / 11:20 9 sort stool, slight 16-May-89 08:07 5 / 11:20 9 normal/no significant 16-May-89 08:01 5 / 11:20 9 normal/no significant 16-May-89 08:11 5 / 11:20 9 normal/no significant 16-May-89 08:01 5 / 11:20 9 normal/n										excessive thirst, severe	
15-May-89 10:14 13 / 10:19 9 cacesive thirst, slight 15-May-89 10:23 14 / 10:19 9 excessive thirst, slight 15-May-89 10:23 14 / 10:19 9 excessive thirst, slight 15-May-89 10:28 14 / 14:56 9 pacing, slight 15-May-89 10:31 15 / 08:00 9 normal/no significant 15-May-89 14:27 1 / 11:03 9 vomiting 15-May-89 14:27 1 / 14:15 9 disoriented, moderate 15-May-89 14:27 1 / 14:15 9 disoriented, moderate 15-May-89 14:52 2 / 07:18 9 soft stool, slight 15-May-89 14:58 2 / 11:16 9 vomiting 15-May-89 15:03 2 / 14:01 9 disoriented, moderate 15-May-89 15:15 3 / 14:01 9 disoriented, slight 15-May-89 15:15 3 / 14:01 9 disoriented, moderate 15-May-89 15:35 3 / 14:30 9 disoriented, moderate 15-May-89 15:35 3 / 14:05 9 normal/no significant 16-May-89 08:07 5 / 11:21 9 disoriented, moderate 16-May-89 08:07 5 / 11:20 9 normal/no significant 16-May-89 08:07 5 / 1						•	Ç		c	, moderate	
15-May-89 10:23 14 / 10:19 9 excessive thirst, slight vomiting 15-May-89 10:28 14 / 14:56 9 pacing, slight vomiting 15-May-89 10:28 14 / 14:56 9 pacing, slight 15-May-89 14:27 1 / 109:30 9 normal/no significant 15-May-89 14:27 1 / 109:30 9 normal/no significant 15-May-89 14:27 1 / 11:03 9 vomiting disoriented, moderate 15-May-89 14:58 2 / 17:16 9 vomiting 15-May-89 15:03 2 / 14:01 9 disoriented, slight 15-May-89 15:13 3 / 14:30 9 disoriented, moderate 15-May-89 15:15 3 / 14:30 9 disoriented, slight 15-May-89 15:15 3 / 14:30 9 disoriented, moderate 15-May-89 15:43 4 / 07:20 9 soft stool, slight 15-May-89 15:43 4 / 11:21 9 disoriented, moderate 15-May-89 15:53 4 / 11:21 9 disoriented, moderate 15-May-89 15:53 4 / 14:30 9 disoriented, moderate 15-May-89 15:53 4 / 14:25 9 normal/no significant 16-May-89 08:11 5 / 11:20 9 excessive thirst, mode 16-May-89 08:11 5 / 15:22 9 normal/no significant 16-May-89 08:11 5 / 15:22 9 normal/no signif				15-HBY		90:01	2 }		> 0	Significant Sign	
15-May-89 10:28 14 / 14:56 9 pacing, slight vomiting 15-May-89 10:31 15 / 08:00 9 normal/no significant 15-May-89 14:17 1 / 09:30 9 normal/no significant 15-May-89 14:22 1 / 11:03 9 vomiting disoriented, moderate 15-May-89 14:27 1 / 14:15 9 disoriented, slight 15-May-89 14:52 2 / 07:18 9 soft stool, slight 15-May-89 14:58 2 / 11:16 9 vomiting disoriented, slight 15-May-89 15:03 2 / 14:01 9 disoriented, slight 15-May-89 15:13 3 / 09:15 9 soft stool, slight 15-May-89 15:15 3 / 11:01 9 vomiting disoriented, moderate 15-May-89 15:43 4 / 07:20 9 soft stool, slight 15-May-89 15:43 4 / 07:20 9 soft stool, slight 15-May-89 15:53 4 / 14:05 9 normal/no significant 16-May-89 08:03 5 / 11:21 9 disoriented, moderate 16-May-89 08:03 5 / 11:20 9 normal/no significant 16-May-89 08:01 5 / 15:22 9 normal/no significant				15.EBV		02:01	2 7		<b>&gt;</b> 0	excessive thinst shiph	
15-May-89 10:28						2	:		•		
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89A00058 M/ 1/4 15-May-89 14:17 1 / 09:30 9 normal/no significant 15-May-89 14:22 1 / 11:03 9 vomiting disoriented, moderate 15-May-89 14:27 1 / 14:15 9 disoriented, moderate 15-May-89 14:58 2 / 11:16 9 vomiting disoriented, moderate 15-May-89 15:03 2 / 14:01 9 disoriented, moderate 15-May-89 15:13 3 / 09:15 9 soft stool, slight 15-May-89 15:15 3 / 11:01 9 vomiting disoriented, moderate 15-May-89 15:15 3 / 14:30 9 disoriented, moderate 15-May-89 15:47 4 / 11:21 9 disoriented, slight 15-May-89 15:47 4 / 11:21 9 disoriented, moderate 15-May-89 15:47 4 / 11:21 9 disoriented, moderate 15-May-89 15:53 4 / 07:20 9 soft stool, slight 15-May-89 15:53 5 / 14:05 9 normal/no significant 16-May-89 08:03 5 / 11:20 9 excessive thirst, moderate 16-May-89 08:01 5 / 15:22 9 normal/no significant				15-May-		10:31	15		۰		
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14:27				15-May-		14:22	-		Φ.	vomiting	
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14:52 2 / 07:18 9 soft stool, slight 14:58 2 / 11:16 9 vomiting disoriented, moderate 15:03 2 / 14:01 9 disoriented, slight 15:15 3 / 11:01 9 vomiting disoriented, moderate 15:15 3 / 14:30 9 disoriented, moderate 15:35 3 / 14:30 9 disoriented, slight 15:47 4 / 11:21 9 disoriented, moderate 15:53 4 / 14:05 9 normal/no significant 08:03 5 / 17:20 9 excessive thirst, mode 08:01 5 / 15:22 9 normal/no significant				15-May		14:27	-		<b>O</b>	disoriented, slight	
14:58 2 / 11:10 9 vomiting disoriented, moderate 15:03 2 / 14:01 9 disoriented, slight 15:15 3 / 09:15 9 soft stool, slight 15:15 3 / 11:01 9 vomiting disoriented, moderate 15:35 3 / 14:30 9 disoriented, slight 15:47 4 / 07:20 9 soft stool, slight 15:53 4 / 11:21 9 disoriented, moderate 15:53 5 / 11:21 9 disoriented, moderate 08:03 5 / 07:25 9 normal/no significant 08:07 5 / 15:22 9 normal/no significant 08:11 5 / 15:22 9 normal/no significant				15-May-		14:52	~ (		> 0	soft stool, slight	
15:03				15-May-		14:58	7		>		
15:13				:		,	,		•	disoriented, moderate	
15:11 3 / 0%:12 % sort stoot, stignt 15:15 3 / 11:01 9 vomiting disoriented, moderate 15:35 3 / 14:30 9 disoriented, slight 15:43 4 / 07:20 9 soft stool, slight 15:47 4 / 11:21 9 disoriented, moderate 15:53 4 / 14:05 9 normal/no significant 08:07 5 / 107:25 9 normal/no significant 08:07 5 / 15:22 9 normal/no significant				15 - May		50:01	7 .		> 0		
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15:53 4 / 14:05 9 normal/no significant 08:03 5 / 07:25 9 normal/no significant 08:07 5 / 11:20 9 excessive thirst, mode 08:11 5 / 15:22 9 normal/no significant				15-May-		15:47	4		• •	disoriented, moderate	
08:03 5 / 07:25 9 normal/no significant 08:07 5 / 11:20 9 excessive thirst, mode 08:11 5 / 15:22 9 normal/no significant				15-14.		15.51	7		•		
08:07 5 / 11:20 9 08:11 5 / 15:22 9				16-May-		38:03	· 10		•	normal/no significant signs	
08:11 5 / 15:22 9				16-May-		70:80	2		٥	excessive thirst, moderate	
				16-May-		18:11	. 10	/ 15:22	٥	normal/no significant signs	

			4	Appendi	ndix	o Q	(cont.):		INDIVIDUAL ANIMAL	IL ANIM		HISTORIES	
LETTERMAN / DIV OF RES PRESIDIO OI DOG/BEAGLE	RMAN ARNY F RES SUPI 310 OF SAI SAGLE	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	ERV GP	ESEARC 94129	# _	æ	r Oata	Listin D Stud	8 1 1	Signs With 88008M Animal 07-feb-89	Vithout Masses 89	<b>ଶ୍ଚିତ୍ର</b> ଓଡ଼ିଆ ଓ	PRINTED: 03-Oct-89 Page: 7 SUB-ACUTE/
Cage	Animal	Cage Animal Sex/group Date and Time	Dete Dete	Bnd tes En	Time	Study Data M	Study Day/time Data was Taken	. 0		s / Comment			
3 6	3 89A00058 M/ 1/4		16-May-89	- 89-1	08:15	•	6 / 07:55	•	soft stool, moderate	oderate	· · · · ·	1	
			10-#8)		08:18	0	/ 10:5/		disoriented, moderate excessive thirst moderate	Moderate	4		
			16-May-89		08:22	•	/ 14:50		disoriented, slight	stight	יע		
			16-May-89		08:25	~	/ 07:19	Φ.	soft stool, moderate	oderate			
			16-May-89		08:29	7	/ 10:32		disoriented, moderate	moderate			
			•						excessive thirst, slight	rst, slight	•		
			16-May-89		08:35	7	14:54	•	normal/no significant		signs		
			16-May-89		06:30	<b>&amp;</b>	/ 07:25		soft stool, slight	light			
			16-May-89		09:33	∞	/ 10:26		disoriented, slight	slight			
									inactive, slight	ght			
			16-May-89		06:60	<b>&amp;</b>	/ 14:00	•	disoriented, slight	slight			
									hunched posture, slight	re, slight			
			16-May-89		95:60	16	/ 07:19	٥	soft stool, moderate	oderate			
			16-May-89		85:60	ο.	/ 10:37		disoriented, moderate	Moderate			
									inactive, slight	ght			
			16-May-89	4-89	10:04	0	9 / 14:01	•	disoriented, slight	slight			
									hunched posture, slight	re, slight			
			16-May-89	4-89	10:16	9	/ 07:19		soft stool, moderate	oderate			
			16-May-89	4-89	10:20	0	/ 10:32	Φ.	disoriented, slight	slight			
			16-May-89	۲-89	10:23	0	/ 14:25		disoriented, slight	slight			
									hunched posture, slight	ire, slight			
			16-May-89		13:22	=	/ 08:05	•	soft stool, slight	light			
			16-40)		13:26	=	/ 11:38		soft stool, severe	evere			
									disoriented, moderate	moderate			
									inactive, slight	ght			
									hunched posture, slight	ire, slight			
									tremors, slight	āt			
			16-May-89	٧-89	13:52	=	11 / 16:54	0	disoriented, slight	slight			
									hunched posture, slight	ire, slight			
									tremors, moderate	rate			
			16-May-89	۲-89	13:56	12	12 / 08:10	•	hunched posture, slight	re, slight			
									soft stool, moderate	oderate			
			16-May-89		14:00	12	12 / 11:00	0	hunched posture, moderate	re, moderat	ë.		
									disoriented, moderate	Moderate			

				Appendix	ndix	D (c	(cont.):		INDIVIDUAL ANIMAL HISTORIES		
LETTERM DIV OF	RES SUP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	SERV GP	ESEARC	×	Ra	, Data Li	sting	Without Masses	NTED: Page:	PRINTED: 03-Oct-89 Page: 8
PRESIDIO O DOG/BEAGLE	O OF SI	IN FRANCI	מכט, כא	94129				Study	Data Listing by Animal Study Start Date: 07-Feb-89		SUB-ACUTE/
) # #	Animal	Cage Animal Sex/group Date and Time	ip Date	and as En	Time	Study [ Data wa	Study Day/time Oper Data was Taken #	•	Clinical signs / Comments		
98 E	3 89A00058	89A00058 M/ 1/4 16-Ma	16-H	16-May-89 14:	14:00	12 /	12 / 11:00	6	inactive, slight	; ; ;	1 f f t t t
			;			,	,	(	Clemors, severe		
			16-M×/-89		14:22	2:	15:55	<b>&gt;</b> (	hunched posture, slight		
			VO-1 PM-01		40.4	2:	71:70	> 0	normal/no significant signs		
			10-Me/-07		4:34	2	C # : O :	>	Inscrive, stignt disoriented, soderate		
									hunched posture, moderate		
									tremors, severe		
			16-May-89			13 /	14:50	٥	disoriented, slight		
			16-M Jy-89		14:48	14 /	00:60	0	normal/no significant signs		
			16-M-1y-89	ıy-89	14:52	14 /	10:08	٥	disoriented, slight		
									inactive, slight		
			•				,	•	hunched posture, slight		
			16-M . /-89		14:56	, ,,	14 / 14:50	>	disoriented, slight		
			44.44.40		15.04	1	15 / 07.37	٥	TOBOTION, SINGE		
			E . O		*0:0	2	16:10	•	SOFT STOOL BOOKERS		
98 4	89400003	M/ 2/1	03-May-89		14:58	-	09:14	٥	normal/no significant signs		
			03-May-89		15:08	-	/ 10:15	٥			
									salivation, moderate		
									hunched posture, moderate		
			;			•	;	(	disoriented, stignt		
			US-May-69		17:51	-	1 / 14:55	>	nunched posture, stront disoriented, stight		
			03-Ma		15:26	7	09:10	٥	normal/no significant signs		
			03-May-89		15:42	7 2	2 / 10:14	۰	vomiting		
									salivation, moderate		
									hunched posture, moderate		
									disoriented, slight		
			7		15.50	,	03.76.7.6	q	Tremors, moderate		
			03-MBY-09		06:61	<b>,</b>	00:4	•	TOTOLOGO DOSKITTO, SKIESK TIEBOTS, SKIEDI		
			04-May-89		08:00	3 /	/ 08:54	٥	normal/no significant signs		
			04-May-89		08:03	m	95:60	•	vomiting		
									hunched posture, moderate		

			K	Appendi	ndix	) Q	(cont.):		INDIVIDUAL	ANIMAL	HISTORIES		
LETTERMAN DO NES DIV OF RES PRESIDIO OF DOG/BEAGLE	MAN ARM RES SU TO OF SA	LETTERMAN ARMY INSTITUTE OF RESEARC DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	TE OF RE Serv GP Sco, CA	RESEARCH GP CA 94129	<b>.</b> .	ã.	w Data L	isting S D4 Study	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M Data Listing by Animal Study Start Date: 07-feb-89	ans Without 38M imal eb-89	83 83 83 83 83 83 83 83 83 83 83 83 83 8	PRINTED: Page:	03-0ct-89 9 SUB-ACUTE/
0 # 0	Animel	Cage Animal Sex/group Date and Time	p Date	and Las En	Time	Study Data	Study Day/time Oper Data was Taken #	Oper	Clinical signs / Comments	Comments			
4	4 89A00003	M/ 2/1 04-May-89 08: 04-May-89 08:	04-MBY-89	-89	03	mm	3 / 09:56		inactive, slight hunched posture, moderat inactive	moderate			1 1 1 1 1 1 1
			04-May-89 04-May-89		08:14 08:26	44	4 / 08:42	<b>0 0</b>	normal/no significant vomiting salivation. Moderate	icant signs			
									hunched posture, moderate disoriented, moderate tremors, slight	moderate			
			04-May-89		08:35 08:39	4 10	/ 14:29 / 08:30	• •	inactive, moderate inactive, slight soft stool, slight	ַּבָּ בַּ			
			04-May-89		08:44	٧.	/ 11:16	٥	vomiting salivation, moderate hunched posture, mod tremors, slight	rate moderate			
			04-May-89		08:50	70	/ 14:00	٥		re moderate			
			04-May-89 04-May-89		09:00	99	/ 08:20 / 10:43	••	inactive, slight normal/no significant sig vomiting salivation, moderate hunched posture, moderate	stignt significant signs , moderate sture, moderate			
			04-Hay-89		09:13	•	6 / 14:30	٥	disoriented, moderate tremors, moderate inactive, slight hunched posture, moderate disoriented, slight tremors, moderate	erate Baderate Sht			
			04-MBY-89 04-MBY-89		09:20 09:25	~ ~	/ 08:30 / 09:35	<b>Ф</b> Ф	inactive, slight normal/no significant sig vomiting salivation, moderate hunched posture, moderate	icant signs ate moderate			

			•	Appendi	ndix	<u>0</u>	con	(cont.):		INDIVIDUAL ANIMAL		HISTORIES		
LETTERMAN / DIV OF RES PRESIBIO OF	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	INSTITUT P, PATH S N FRANCIS	E OF RE	ESEAR( 9412(	* a	<b>~</b>	6 0	to Lis	ting: Si Dal tudy	Raw Data Listings of Clinical Signs Wi Study Number: 88008M Data Listing by Animal Study Start Date: 07-feb-89	s Without Masses M lal b-89		PRINTED: Page:	PRINTED: 03-0ct-89 Page: 10 SUB-ACUTE/
0.4	Cage Animal Sex/group Date and Time	Aniss Sex/group Date and Time Number /Subgroup Date was Entered	Dete	and tas Er	Time	Study Day/time Data was Taken	tudy Day/tim ata was Take		Oper	Clinical signs / Comments	omments			
*	4 89A00003 M/ 2/1 04-May-89 09:25	M/ 2/1	04-May-89 09:25	v-89	09:25	7	7 / 09:35		. •	disoriented, slight tremors, moderate inactive, moderate				
			04-May-89	٧-89	09:34	7	7 / 14:22	:22	0	increased resp depth, moderate hunched posture, slight disoriented, slight	in, modera light t	<b>U</b>		
			04-May-89 04-May-89	7-89 7-89	09:38 09:47	<b>∞</b> ∞	/ 08 / 09	08:42 09:45	00	fremors, slight hunched posture, slight hunched posture, moderat	light Ioderate			
									😅 🕶 "	Salivation, moderate disoriented, slight tremors, moderate	t t			
			04-May-89	4-89	09:57	80	8 / 14:45	:45	•	inactive, moderate hunched posture, slight disoriented, slight remors, moderate	l ight t			
			04-May-89 04-May-89	7-89 7-89	10:08	<b>о</b>	9 / 09:00 9 / 10:17	:00:17	00	inactive, Stignt hunched posture, slight hunched posture, slight salivation, moderate tremors, slight	light light te			
			04-May-89	1-89	10:22	٥	9 / 14:17	:17	•	inactive, slight excessive thirst, moderate hunched posture, slight	moderate Light r			
			04-May-89 04-May-89	7-89 7-89	10:35	000	10 / 07:17 10 / 09:13	:17	<b>~</b>	hunched posture, slight hunched posture, moderates salivation, slight	light oderate			
			04-May-89	4-89	10:49	10	10 / 14:03	: 03	•	excessive thirst, slight hunched posture, moderate excessive thirst slight	slight oderste slight			
			04-May-89		14:04	=	11 / 07:20	:20	•	hunched posture, slight disoriented, slight	Light			
			04-May-89		14:17	=	11 / 10:10	:10	٠ م	tremors, moderate				

HISTORIES
ANIMAL
INDIVIDUAL
(cont.):
Appendix D

			APE	Appendix	D (cont.):		INDIVIDUAL ANIMAL RISTORIES		
LETTES DIV OF	LETTERMAN ARM DIV OF RES SUI	LETTERMAN ARMY INSTITUTE OF REDIV OF RES SUPP, PATH SERV GP	E OF RESEARCH	ARCH	Rew Date L	isting	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M	PRINTED: Page:	PRINTED: 03-Oct-89 Page: 11
DOG/BEAGLE		Ľ	, ca ,	<u> </u>			Study Start Date: 07-Feb-89		SUB-ACUTE/
	•	10 LB	Date and	d Time Entered	St	Oper.			; ; ; ; ; ;
*	/ 89A00003 M/	M/ 2/1	04-May-89 14:17	9 14:17	11 / 10:10	•	inactive, slight anderste	1 1 6 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			04-May-89	9 14:41	11 / 14:23	٥			
			08->em-70		-	۰	hunched posture, slight		
			04-May-89	9 15:07	12 / 11:15	• •	Vomiting		
			•				salivation, severe		
			08-MM-20			۰	inactive, moderate inactive, slight		
			04-May-89	9 15:19	13 /	•	normal/no significant signs		
			04-May-89			۰	tremors, moderate		
							excessive thirst, moderate		
			04-May-89		\	۰	lack of appetite, moderate		
			04-May-89	15:	14 / 08:19	٥	normal/no significant signs		
			04-May-89		`	0	salivation, slight		
							excessive thirst, moderate		
							lack of appetite, moderate		
			04-May-89	9 15:45		0	lack of appetite, moderate		
			04-May-8	15	15 /	0	tremors, slight		
S	<b>5 89A00009</b>	M/ 2/2	25-May-8			4	normal/no significant signs		
			24-Hay-89		-	4	disoriented, slight		
							vomiting		
							tremors, severe		
			25-May-89	12	`	4	tremors, severe		
			25-May-89	9 12:39	2 / 09:00	4	normal/no significant signs		
			25-May-8	15	2 / 10:19	4	vomiting		
							tremors, severe		
							disoriented, moderate		
							excessive thirst, moderate		
			25-May-89	9 12:45	7 2	4	normal/no significant signs		
			25-May-89		3 /	4	normal/no significant signs		
			25-May-8			4			

			Ap.	Appendix	D (c	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
LETTER DIV OF	MAN ARNY RES SUP	LETTERMAN ARMY INSTITUTE OF R. DIV OF RES SUPP, PAIN SERV GP	E OF RESE ERV GP	RESEARCH SP	α 8	Data Lis	sting. Si	Without Masses	PRINTED: 03-0ct-89 Page: 12
PRESIDIO O DOG/BEAGLE	10 OF SA	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/Beagle	CO, CA 94	129			Da	Data Listing by Animal Study Start Date: 07-Feb-89	SUB-ACUTE/
9 % 0 % U	Animal	Cage Animal Sex/group Date and Time	Date and Tim	nd Time	•		•	<b>S</b>	
8 5	9A00009	5 89A00009 M/ 2/2	25-May-8	25-May-89 12:50		3 / 10:11	*	disoriented, slight hunched posture, slight	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			25-May-89 25-May-89	39 12:52	M 4 -	14:31	44.	tremors, moderate normal/no significant signs	
			40-48H-67	C: 7	•	?		tremors, moderate	
								disoriented, moderate excessive thirst, severe	
							_ **	hunched posture, slight salivation, moderate	
			25-Mey-89		1 4	14:00		tremors, slight	
			25-May-89	39 13:01	2	08:23	4	normal/no significant signs	
			25-May-8		2 /	11:05		tremors, severe	
								excessive thirst, severe	
								hunched posture, moderate	
			25.Mey-20	40.51.04	· ·	(3.71 /	4	The state of the s	
			7 KBU-C7		•			hunched bosture. Slight	
								inactive, slight	
			25-May-89	39 13:07	/ 9	00:60 / 9	4	normal/no significant signs	
			25-May-6		9	, 10:23	-	vomiting	
								tremors, moderate	
							•	disoriented, moderate	
							- '	excessive thirst, moderate	
								Thactive, moderate	
			:		•	47.33		nunched posture, struggl	
			23-May-09		0	17:41 / 0	;	indects, model and	
							_	hunched posture, slight	
			25-May-89	39 13:13	1 1	00:60 / 2	4		
			•					inactive, slight	
			25-May-89	39 13:18	1 2	7 / 10:13	4	tremors, moderate	
								inactive, slight	
							. '	VOEI(1) CO	
							-	disoriented, moderate	

PRINTED:  Study Start Date: 800084  Data Listings of Clinical Signs Without Masses  Study Start Date: 07-Feb-89  Time Study Day/time Oper  Time Study Day  Time Study Day/time Oper  Time Study Day  Time St	2 6 : 6:		. (		
Time Study Day/time Oper  Time Study Day/time Oper  13:18	: E:	<b>5</b> 6	Res Date Lis	tings of Clinical Signs Without Masses Study Number: 88008M Data Listing by Animal cudy Start Date: 07-Feb-89	
5 89A00009 W/ 2/2 25-May-89 13:18	5 89A00009 M/ 2/2 25-May-89	:	tudy Day/time O	1	
13:20  13:20  13:20  13:20  13:20  13:22  13:22  13:22  13:23  13:24  13:25  13:25  13:25  13:25  13:25  13:25  13:26  13:26  13:27  13:28  13:29  14:09  14:09  14:09  15:29  15:29  16:27  16:27  17:29  17:29  17:29  17:29  17:29  17:29  17:29  17:29  17:28  18:29  17:29  17:29  18:39  11:12:12  18:29  18:39  18:39  18:39  18:39  18:41  18:41  18:41  18:41  18:42  18:44  18:45  18:45  18:45  18:45  18:45  18:45  18:45  18:45  18:46  18:47  18:48		13:18	:		
13:20  13:20  13:20  13:22  13:22  13:22  13:22  13:24  13:25  13:25  13:25  13:26  13:26  13:26  13:27  13:28  14:27  14:09  14:09  13:29  10/07:27  10/07:27  10/07:27  10/07:27  10/07:27  10/07:27  10/07:27  10/07:27  10/07:27  10/07:27  10/07:27  10/07:27  10/07:27  10/07:27  10/07:27  10/07:27  10/07:27  10/07:27  10/07:28  10/07:28  10/07:29  10/07:				salivation, moderate hunched posture, slight	
13:22		13:19	`		
13:22		13:20	_		
13:23		13:22	\		
13:23				tremors, slight	
13:23 8 / 14:27 4 normal/no significant 13:26 9 / 07:27 4 normal/no significant 13:26 9 / 07:27 4 normal/no significant 13:28 9 / 14:09 4 excessive thirst, mode 13:29 10 / 07:25 4 normal/no significant 13:30 10 / 10:40 4 excessive thirst, mode 13:32 10 / 10:40 4 tremors, slight 13:32 10 / 14:28 4 tremors, slight 13:35 11 / 14:28 4 tremors, slight 13:35 11 / 14:28 4 tremors, slight 13:35 11 / 12:12 4 lack of appetite, mode 13:39 12 / 09:30 4 lack of appetite, mode 13:41 12 / 14:00 4 normal/no significant 13:43 13 / 08:15 4 lack of appetite, mode				disoriented school	
13:24 9 707:27 4 normal/no significant 13:26 9 709:39 4 excessive thirst, moderate salivation, slight hunched posture, slight hunched posture, slight excessive thirst, moderate 13:29 10 707:25 4 normal/no significant 13:30 10 707:25 4 normal/no significant 13:32 10 707:25 4 normal/no significant 13:38 11 7000 4 normal/no significant 13:38 11 7000 4 normal/no significant 13:39 12 7000:30 4 lack of appetite, moderate 13:39 12 709:30 4 lack of appetite, slight 13:40 12 71:28 4 excessive thirst, slight 13:41 12 712 6 lack of appetite, moderate 13:43 13 708:15 4 lack of appetite, moderate 13:44 13 712:02 4 lack of appetite, moderate 13:44 14:00 4 lack of appetite, moderate 13:44 14:00 4 lack of appetite, moderate 13:45 14:00 4 lack of appetite, moderate 13:46 14:00 4 lack of appetite, moderate 14:00 4 lack of appetite, moderat		13:23	`	normal/no significant	
13:26     9 / 09:39     4       13:28     9 / 14:09     4       13:29     10 / 07:25     4       13:30     10 / 10:40     4       13:32     10 / 14:28     4       13:38     11 / 14:00     4       13:38     11 / 14:00     4       13:39     12 / 09:30     4       13:40     12 / 11:28     4       13:41     12 / 12:02     4       13:43     13 / 12:02     4       13:44     13 / 12:02     4		13:24	. \	normal/no significant	
13:28     9 / 14:09     4       13:29     10 / 07:25     4       13:30     10 / 10:40     4       13:32     10 / 14:28     4       13:38     11 / 14:00     4       13:33     11 / 12:12     4       13:39     12 / 09:30     4       13:40     12 / 11:28     4       13:41     12 / 14:00     4       13:43     13 / 12:02     4       13:44     13 / 12:02     4		13:26	. ~	excessive thirst, mode	
13:28     9 / 14:09     4       13:29     10 / 07:25     4       13:30     10 / 10:40     4       13:32     10 / 14:28     4       13:38     11 / 14:00     4       13:33     11 / 14:00     4       13:35     12 / 09:30     4       13:40     12 / 11:28     4       13:41     12 / 11:28     4       13:43     13 / 12:02     4       13:44     13 / 12:02     4       13:44     13 / 12:02     4				tremors, moderate	
13:28     9 / 14:09     4       13:29     10 / 07:25     4       13:30     10 / 10:40     4       13:32     10 / 14:28     4       13:38     11 / 14:00     4       13:35     11 / 14:00     4       13:35     11 / 12:12     4       13:39     12 / 09:30     4       13:40     12 / 11:28     4       13:43     13 / 12:02     4       13:44     13 / 12:02     4       13:44     13 / 12:02     4				salivation, slight	
13:28     9 / 14:09     4       13:29     10 / 07:25     4       13:30     10 / 10:40     4       13:38     11 / 14:00     4       13:38     11 / 14:00     4       13:35     11 / 12:12     4       13:39     12 / 09:30     4       13:40     12 / 11:28     4       13:41     12 / 14:00     4       13:43     13 / 12:02     4       13:44     13 / 12:02     4					
13:29     10 / 07:25     4       13:30     10 / 10:40     4       13:32     10 / 14:28     4       13:38     11 / 14:00     4       13:35     11 / 12:12     4       13:39     12 / 09:30     4       13:40     12 / 11:28     4       13:41     12 / 14:00     4       13:43     13 / 12:02     4       13:44     13 / 12:02     4       13:44     13 / 12:02     4		13:28	9 / 14:09		
13:29     10 / 07:25     4       13:30     10 / 10:40     4       13:32     10 / 14:28     4       13:38     11 / 14:00     4       13:35     11 / 12:12     4       13:39     12 / 09:30     4       13:40     12 / 14:00     4       13:41     12 / 14:00     4       13:43     13 / 12:02     4       13:44     13 / 12:02     4			:		
13:30     10 / 10:40     4       13:32     10 / 14:28     4       13:38     11 / 14:00     4       13:35     11 / 09:55     4       13:39     12 / 09:30     4       13:40     12 / 11:28     4       13:41     12 / 14:00     4       13:43     13 / 12:02     4       13:44     13 / 12:02     4		13:29	10 / 07:25		
13:32     10 / 14:28     4       13:38     11 / 14:00     4       13:33     11 / 09:55     4       13:35     11 / 12:12     4       13:39     12 / 09:30     4       13:40     12 / 11:28     4       13:41     12 / 14:00     4       13:43     13 / 12:02     4       13:44     13 / 12:02     4		13:30	10 / 10:40		
13:32     10 / 14:28     4       13:38     11 / 14:00     4       13:33     11 / 09:55     4       13:35     11 / 12:12     4       13:39     12 / 09:30     4       13:40     12 / 11:28     4       13:41     12 / 14:00     4       13:43     13 / 08:15     4       13:44     13 / 12:02     4				tremors, slight	
13:32     10 / 14:28     4       13:38     11 / 14:00     4       13:33     11 / 09:55     4       13:35     12 / 09:30     4       13:40     12 / 11:28     4       13:41     12 / 14:00     4       13:43     13 / 08:15     4       13:44     13 / 12:02     4					
13:38     11 / 14:00     4       13:33     11 / 09:55     4       13:35     12 / 09:30     4       13:39     12 / 09:30     4       13:40     12 / 11:28     4       13:41     12 / 14:00     4       13:43     13 / 08:15     4       13:44     13 / 12:02     4		13:32	10 / 14:28		
13:38 11 / 14:00 4 13:33 11 / 09:55 4 13:35 11 / 12:12 4 13:40 12 / 09:30 4 13:41 12 / 11:28 4 13:43 13 / 08:15 4 13:44 13 / 12:02 4					
13:33     11 / 09:55     4       13:35     11 / 12:12     4       13:39     12 / 09:30     4       13:40     12 / 11:28     4       13:41     12 / 14:00     4       13:43     13 / 08:15     4       13:44     13 / 12:02     4		13:38	11 / 14:00		
13:35     11 / 12:12     4       13:39     12 / 09:30     4       13:40     12 / 11:28     4       13:41     12 / 11:28     4       13:43     13 / 08:15     4       13:43     13 / 08:15     4       13:44     13 / 12:02     4		13:33	55:60 / 11	hunched posture,	
13:35   11 / 12:12 4 13:39   12 / 09:30 4 13:40   12 / 11:28 4 13:41   12 / 14:00 4 13:43   13 / 08:15 4 13:44   13 / 12:02 4	•			lack of appetite,	
13:39 12 / 09:30 4 13:40 12 / 11:28 4 13:41 12 / 14:00 4 13:43 13 / 08:15 4 13:44 13 / 12:02 4		13:35	21:21 / 11	lack of appetite,	
13:39 12 / 19:30 4 13:40 12 / 11:28 4 13:41 12 / 14:00 4 13:43 13 / 08:15 4 13:44 13 / 12:02 4		,		excessive thirst,	
13:40 12 / 11:28 4 13:41 12 / 14:00 4 13:43 13 / 08:15 4 13:44 13 / 12:02 4		13:59	12 / 09:30	tack of appetite,	
13:41 12 / 14:00 4 13:43 13 / 08:15 4 13:44 13 / 12:02 4		13:40	12 / 11:28	excessive thirst,	
13:41 12 / 14:00 4 13:43 13 / 08:15 4 13:44 13 / 12:02 4					
13:43 13 / 08:15 4 13:44 13 / 12:02 4		13:41	`		
13:44 13 / 12:02 4 (ack of appetite,		13:43	`		
		13:44	`	(ack of appetite,	

HISTORIES
ANIMAL
INDIVIDUAL
(cont.):
pendix D

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LETTE DIV 0	RMAN ARMI	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	TE OF RESERVED	SEARC	<b>.</b>	e e	w Data L	istin	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M	PRINTED: 03-0ct-89 Page: 14
PRES1 506/8	PRESIDIO OF SA DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/Beagle	\$CO, CA	94129			•	Stud	Data Listing by Animal Study Start Date: 07-Feb-89	SUB-ACUTE/
Case	٠	Animal Sex/group Date and	) Date	1	Time	Study	Study Day/time	ð		
**	•	Rusber /Subgroup Data was Entered	Data w	as En	tered	Date	Data was Taken	*	Clinical signs / Comments	
S	S 89A00009	11/2/2	25-May	-89	_	13	/ 12:02	4	excessive thirst, moderate	
			25-May-89		13:45	13	/ 14:10	4	lack of appetite, moderate	
			25-May		13:46		77:10 /	4	lack of appetite, moderate	
			25-May		13:48		62:60 /	7	excessive thirst, moderate	
			25-May		13:49	1,	/ 14:32	4	excessive thirst, moderate	
			25-May		13:50	15	80:20 /	4		
•	89A00047	N/ 2/3	11-May-89	-89	14:34	-	/ 09:30	0	normal/no significant signs	
			11-May-89	-89	14:38	-	7 10:49	٥	vomiting	
									hunched posture, slight	
			11-May	-89	14:43	-	7 14:46	٥	hunched posture, slight	
			11-May-89	-89	14:46	~	/ 07:20	۰	soft stool, moderate	
			11-May	.89	14:50		/ 10:41	٥	vomiting	
			11-May-89		14:57	7	/ 14:11	<b>о</b> -	hunched posture, slight	
			11-May		15:07	m	, 07:15	٥		
			11-May-89		15:11	m	/ 10:55	٥	vomiting	
									hunched posture, moderate	
									inactive, moderate	
			11-May-89		15:16	m	14:00	٥	normal/no significant signs	
			11-May		15:23	4	/ 09:10	٥	₹	
			11-May-89		15:28	4	/ 10:43	0		
			11-May		15:33	4	/ 14:30	0	significant	
			12-May-89		08:17	S	/ 07:13	٥	normal/no significant signs	
			12-May		08:32	'n	/ 10:57	0	vomiting	
			12-May-89		08:43	S	/ 14:01	0	normal/no significant signs	
			12-May		95:80	9	/ 07:29	٥		
			:			•	•	(	excessive thirst, slight	
			12-May-89		74:80	ò	20:11:02	>	soft stool, slight	
									excessive thirst, moderate	

			Appe	Appendix	) Q	(cont.):		INDIVIDUAL ANIMAL HISTORIES	IES
LETTERMAN CIV OF RESPRESSIDIO OF DOG/BEAGLE	AN ARMY RES SUPP O OF SAN	LETTERMAN ARMY INSTITUTE OF R. SIV OF RES SUPP., PATH SERV GP PRESIDIO OF SAN FRANCISCO, CADOG/BEAGLE	LETTERMAN ARMY INSTITUTE OF RESEARCH 31V OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	RCH 29	α α	Data Lis	sting S Da	Raw Data Listings of Clinical Signs Without Masses Study Mumber: 88008M Data Listing by Animal Study Start Date: 07-Feb:89	PRINTED: 03-OCT-89 Page: 15 SVB-ACUTE/
	Anime: S Kumber /	me Sex/group Date and Der /Subgroup Date Es	Cade Aniss Sex/group Date and Tise	Time	Study D Data Ma	Study Day/time C Data was Taken	: _	Clinical signs / Comments	
68 9	6 89A00047 #/ 2/3	#/ 2/3	#/ 2/3 12-#ay-89 08:55	08:57 09:04	, 9	6 / 11:02 6 / 15:30	00	inactive, slight hunched posture, slight inactive, slight	
			12-May-89	90:60	1 1	7 / 07:51	0.	cremors, scright househed posture, slight	
			12-May-89	09:11	1 2	7 / 10:17	о О	indicated posture, slight inactive, moderate	
							-	vositing excessive thirst, slight	
			12-May-89	95:60	1 /	7 / 14:55	•	fremoors, stignt hunched posture, slight	
			15-May-89 15-May-89	08:06	× ×	/ 07:15	o- o-	soft stool, moderate	
							-	inactive, moderate bunched posture moderate	
			15-May-89	08:18	800	14:53	•		
			15-May-89		• •	10:04		VORITING	
								inactive, moderate hunched posture, moderate	
			15-May-89	67:80	6	9 / 14:00	۰	inactive, slight inactive, slight bunched posture, slight	
			15-May-89	80:60	10 /	10 / 07:22	٥		
			15-May-89	09:16	10 /	10 / 10:13	Φ.	tremors, moderate inactive, slight tremors, slight	
			15-Mmy-89	09:22	. 10 /	. 14:07	٥	hunched posture, moderate excessive thirst, moderate inactive, slight tremors, slight hunched posture, moderate	

LETTERMAN ARMY INSTITUTE OF RECEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94.129 DOG/BEAGLE Cage Animal Sex/group Date and Time # Number /Subgroup Date was Entered # Number /Subgroup Date was Entered # Number /Subgroup Date was Entered 5 89A00047 M/ 2/3 15-May-89 09:55 15-May-89 09:55 15-May-89 10:07 15-May-89 10:10 15-May-89 10:10 15-May-89 10:10	SIDIO OF SAN FRANCISCO, CA 94129 SIDIO OF SAN FRANCISCO, CA 94129 /BEAGLE  Ge Animal Sex/group Date and Time a Number /Subgroup Date and Time A Number /Subgroup Date was Entered A Number /Subgroup Date was Entered A 15-May-89 09:39 15-May-89 09:50 15-May-89 09:50	SERV GP ISCO, CA 9412 ISCO, CA 9412 JP Date and JP Date and 15-May-89 15-May-89	16 129 10 129 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i grain o	Study D	Rew Data Listin  D  Stud  Study Day/time Oper	O O O O > ·	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M Data Listing by Animal Study Start Date: 07-Feb-89	PRINTED: 03-Oct-89 Page: 16 SUB-ACUTE/
Canal Andrews	1 Sex/ground	15-May-	89 09 89 09 89 09	i go im o	study Data wa	By/time s Taken			
6 89A0064	67 M/ 2/3	15- X B Y- 15- X B Y- 15- X B Y- 15- X B Y-	60 68	7:33	11 /		*		1
		15-May-		):39	-	11 / 07:27	. 6	inactive, slight tregors, slight cost e.e.	
		15-May-			11 /	11 / 10:06	٥	sort stoot, stant inactive, slight iremors, slight hunched posture, moderate	
		15-May-						vomiting excessive thirst, moderate	
				09:45	11 /	11 / 14:25	٥	inactive, slight	
		10 - KBY - C1		06:60	12 /	12 / 08:00	٥	soft stool, moderate	
		15-May-89		9:54	12 /	11:03	٥.		
								nunched posture, moderate tremors, slight	
		15-May-89		65:60	12 /	12 / 16:52	٥	inactive, slight	
		15-May-89		10:07	13 /	13 / 08:05	٥	hunched posture, slight soft stool, slight	
				9	;	•	ď	tremors, moderate	
		15-May-89		01:01	13 /	15 / 10:10	>	inactive, moderate hunched posture, moderate	
								Vomiting	
								tremors, severe excessive thirst, severe	
		15-May-89		10:15	13 /	13 / 15:45	۰	salivation, moderate inactive, sliabt	
					•			hunched posture, moderate	
		15-May-89		10:20	14 /	14 / 07:24	6	inactive, moderate inactive, alight hunched bosture, moderate	
		15-May-89		10:24	14 /	14 / 10:25	٠		
								fremore, severe	
		15-May-89		10:29	14 /	14 / 14:57	٥	usorience, signi inactive, slight	

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LETTERMAN DIV OF RESPRESSION OF RESP	<b>4</b> %	P. PA	TUTE TH SE NC1SC	60	RESEARCH IP :A 94129	£ 6	œ	30	oto Lis	sting S Oa	Raw Data Listings of Clinical Signs Wi Study Number: 88008M Data Listing by Animal Study Start Date: 07-feb-89	iigns Without 1008M Inimal 1-Feb-89	2 0 0 2 2 3	PRINTED: Page:	PRINTED: 03-Oct-89 Page: 17 SUB-ACUTE/
		Sex/g /Subg	qnou	Date	and Eas E	Time	Study Day/time Data was Taken	Day/		Oper *	Clinical signs / Comments	/ Comments		1 1 1 1 1 1	
•	6 89A00047	M/ 2	2/3	M/ 2/3 15-May-89 10:	y-89 y-89	10:29	14	14 / 14:57 15 / 08:00	/ 14:57 / 08:00		hunched posture, moderate inactive, slight	, moderate			
7	89A00002	¥ /#	3/1	03-May-89 03-May-89	y-89 y-89	14:58 15:12	~-		09:14 10:15	00		ficant signs			
				03-May-89 03-May-89 03-May-89	7-89 7-89 8-89	15:21 15:38 15:38	- 2 0		14:34 09:14 10:18	000	inactive, stight inactive, slight normal/no signif vomiting	stigni stight significant signs			
						į			94 - 50	•	inactive, moderate tremors, moderate inactive moderate	a to			
				05-789-89 04-789-89 04-789-89	y - 89 y - 89 y - 89	08:00 08:00	NWW		08:57 09:57			significant signs			
				04-May-89	ıy-89	08:09	м		/ 14:14	٥	tremors, slight vomiting inactive, slight	, , , , , , , , , , , , , , , , , , ,			
				04-May-89 04-May-89	1y-89 1y-89	08:19 08:27	44		/ 10:40 / 09:41	٥٥	normal/no significant vomiting inderste	ificant signs Ificant signs Inte			
				04-May-89 04-May-89 04-May-89	17-89 17-89 17-89	08:36 08:40 08:45	4 N N	` ` `	14:29 08:30 11:19	000		at t Tete			
				04-May-89 04-May-89 04-May-89	17-89 17-89 17-89	08:50 09:01 09:05	W 40 40		14:00 08:20 10:43	000	vomiting inactive, slight soft stool, slight vomiting inactive, moderate	nt ight rate			
				04-May-89 04-May-89 04-May-89	17-89 17-89 17-89	09:13 09:20 09:26	911		14:30 08:50 09:55	000	tremors, moderate inactive, slight soft stool, slight vomiting	ight ight			

			Apl	Appendix	Ω	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
DIV	SERMAN ARM	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	E OF RESE	ARCH	<b></b>	aw Data	Listin	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M	PRINTED: 03-Oct-89 Page: 18
PRES1 DOG/8	PRESIDIO OF SV DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/Beagle	CO, CA 94	129			Stud	Data Listing by Animal Study Start Date: 07-Feb-89	SUB-ACUTE/
. 08 to	e Animel Rumber	Cage Animal Sex/group Date and Time # Number / Subgroup Data was Entered	Date an	nd Time Entered	Study Data	Study Day/time Oper Data was Taken #	e Oper	; –	
7	89A00002	7 89A00002 M/ 3/1 04-Mmy-89 09:26	M/ 3/1 04-May-89 09:	19 09:26		7 / 09:55	•	inactive, slight	6 2 8 8 9 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8
								tremors, slight	
			:		,			increased resp depth, slight	
			04-May-89	8	'	`		inactive, slight	
			04-MBY-89	19 09:39	<b>60</b>	1 / 08:42	<u>م</u>	tremors, slight	
			04-May-E	60	~	`		tremors, slight	
								Inscrive, slight	
			,						
			04-May-89			`		tremors, slight	
			04-MBY-89			9 / 09:03	•		
			04-May-89	10:16		/ 10:19		tremors, slight	
								vomiting	
								inactive, slight	
								increased resp depth, slight	
								salivation, slight	
								excessive thirst, moderate	
			04-May-89			`		inactive, slight	
			04-May-89		10	`	٥	inactive, slight	
			04-May-89	19 10:43		1 / 09:15		inactive, moderate	
								tremors, moderate	
			04-May-89	10:50	7	10 / 14:04	٥.	inactive, moderate	
								tremors, slight	
								lack of appetite, moderate	
			04-May-89	14:07	Ξ	11 / 07:21	•	inactive, moderate	
								tremors, moderate	
								excessive thirst, moderate	
			04-May-89	14:19	=	11 / 10:11	•	vomiting	
								inactive, moderate	
			;	,		,		excessive thirst, slight	
			04-May-89	14:42	Ē	11 / 14:23	<b>o</b>	inactive, stight	
			3	16.07	•	11 / 00 / 61	٥		
			10 - ABE - 10	-	-	71.60 /		Lack of accepting moderate	
			08-Veh-20	15.10	1.	12 / 11.25	0		
			, , ,		:			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

			App	Appendix	Ω	(cont.):	::	INDIVIDUAL AN	ANIMAL HISTORIES	
LETTEL DIV OI	FRES SU	LETTERMAN ARMY INSTITUTE OF R. DIV OF RES SUPP. PATH SERV GP	DIV OF RES SUPP, PATH SERV GP	ARCH	-	Raw Data	Listir	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M	Without Masses	PRINTED: 03-Oct-89 Page: 19
PRESIDIO O DOG/BEAGLE	DIO OF S. EAGLE	AN FRANCI	PRESIDIO OF SAM FRANCISCO, CA 94129 DOG/BEAGLE	129	1		Stuc	Data Listing by Animal Study Start Date: 07-Feb-89	68.	SUB-ACUTE/
0 m	Animal	Sex/group /Subgroup	Cage Animal Sex/group Date and Time	d Time Entered		Study Day/time Oper Data was Taken #	ae Oper	Clinical signs / Comments	nments	
7	89A00002	7 89A00002 M/ 3/1	89A00002 M/ 3/1 04-May-89 15: 04-May-89 15:	9 15:10 9 15:16	, <u>-</u>	12 / 11:25 12 / 14:10	: : :	lack of appetite, mo inactive, severe	moderate	
			04-May-89	9 15:19	-	13 / 09:25	8		severe	
			04-May-89	9 15:22	_	13 / 10:43	9	lack of appetite, moinactive, severe	moderate	
								vomiting tremors, slight		
			08-74M-70	15.27	-	14 / 14.00	•	٠, ٠	moderate	
					-					
			08.743.70			7 08 - 10		lack of appetite, mo	moderate	
			04-May-89	15:41		14 / 11:14	. 0.			
								vomiting		
					•				severe	
			04-May-89	9 15:46	÷	14 / 14:01	۰			
			0	15.50	÷	37.70 / 34	0	inck of appetite, se	severe	
			- <b>A</b>		-	†		tresors, slight		
•	89A00045	N/ 3/3	11-May-89	9 14:34		1 / 09:30	• 0	normal/no significant signs	nt signs	
			11-May-89			1 / 10:5		vomiting		
								salivation, moderate	41	
								tremors, moderate		
								inactive, slight		
								hunched posture, moderate		
			11-May-89	9 14:43		1 / 14:45	۰ د د	normal/no significant	nt signs	
			11-May-89					soft stool, slight		
			11-May-89			2 / 10:45		vomiting		
								salivation, moderate	et et	
								tremors, moderate		
								inactive, moderate	٠	
			11-May-89	9 15:04	-	2 / 14:11	۰ -	hunched posture, slight	ight	
						, ,		tremors, moderate		
			11-MBY-05	70:51 6	•	CI:/0 / C	•	SOTE STOOL, MODELBIE		

Page   Page				App	Appendix	D (C	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
Study Time Study Day/time Oper tered Data was Taken # 15:12	LETTE DIV O	RMAN ARM	PP, PATH S	E OF RESEA	IRCH 30	α α	Data Lis	ting S	s of Clinical Signs Without Nasses tudy Number: 88008M	PRINTED: 03-Oct-89 Page: 20
ay-89 15:12 3 / 10:55 9  by-89 15:12 3 / 10:55 9  by-89 15:23 4 / 09:10 9  by-89 15:34 4 / 14:30 9  by-89 08:43 5 / 11:01 9  by-89 08:47 6 / 07:30 9  by-89 08:58 6 / 11:03 9  by-89 09:04 6 / 15:30 9	8/50Q 8/50Q	EAGLE	AN TRABLIS	, ca %	, Y		S	tudy	Start Date: 07-Feb-89	SUB-ACUTE/
11-May-89 15:12 3 / 10:55 9 11-May-89 15:23 4 / 09:10 9 11-May-89 15:23 4 / 10:42 9 11-May-89 15:29 4 / 14:30 9 12-May-89 08:18 5 / 17:01 9 12-May-89 08:43 5 / 14:01 9 12-May-89 08:58 6 / 11:03 9 12-May-89 09:04 6 / 15:30 9	0 <b>*</b>	Animal	Sex/group /Subgroup	Date a	Time	Study D Data wa	ay/time O s Taken		Clinical signs / Comments	
15:16 3 / 14:00 9 15:23 4 / 09:10 9 15:34 6 / 10:42 9 08:18 5 / 07:14 9 08:43 6 / 11:01 9 08:58 6 / 11:03 9 09:04 6 / 15:30 9	•	89400045	N/ 3/3	11-May-89	15:12	3 /			vomiting vomiting salivation, moderate tremors, severe inactive, moderate	
15:29				11-May-89		m.	14:00		hunched posture, moderate panting, slight	
15:34				11-May-85		<b>4</b> 4	10:42		soft stool, moderate vomiting	
08:18									Salivation, slight tremors, moderate	
08:18 5 / 07:14 9 08:34 5 / 11:01 9 08:43 5 / 14:01 9 08:47 6 / 07:30 9 08:58 6 / 11:03 9				11-May-80			14:30		inactive, severe	
08:43 5 / 11:01 9 08:43 5 / 14:01 9 08:47 6 / 07:30 9 08:58 6 / 11:03 9				12-Hay-89			07:14		tremors, moderate	
08:43 5 / 14:01 9 08:47 6 / 07:30 9 08:58 6 / 11:03 9 09:04 6 / 15:30 9				12-May-89		/ 5	11:01		soft stool, slight tremors, slight	
08:43 5 / 14:01 9 08:47 6 / 07:30 9 08:58 6 / 11:03 9 09:04 6 / 15:30 9									soft stool, slight	
08:43 5 / 14:01 9 08:47 6 / 07:30 9 08:58 6 / 11:03 9 09:04 6 / 15:30 9								-	Saliverion, moderate	
08:43 5 / 14:01 9 08:47 6 / 07:30 9 08:58 6 / 11:03 9 09:04 6 / 15:30 9								_	inactive, moderate hunched posture, moderate	
08:58 6 / 11:03 9 09:04 6 / 15:30 9 09:07 7 / 07:52 9				12-18-28			14.01		panting, slight	
08:58 6 / 11:03 9 09:04 6 / 15:30 9 09:07 7 / 07:52 9				12-May-89			07:30		soft stool, moderate	
08:58 6 / 11:03 9 09:04 6 / 15:30 9 09:07 7 / 07:52 9									panting, slight salivation, moderate	
09:04 6 / 15:30 9 09:07 7 / 07:52 9				12-May-89		/ 9	11:03		soft stool, moderate salivation, moderate	
09:04 6 / 15:30 9 09:07 7 / 07:52 9								_	Vomiting	
09:04 6 / 15:30 9 09:07 7 / 07:52 9									tremors, moderate inactive, slight	
09:04 6 / 15:30 9 09:07 7 / 07:52 9									hunched posture, alight excessive thirst alight	
09:07 7 / 07:52 9				12-May-89		/ 9	15:30		Voliting	
-				12-May-89		1 1	07:52		soft stool, moderate increased resp depth, slight	

			Appendi	endix	D (con	(cont.):	H	INDIVIDUAL ANIMAL HISTORIES		
LETTER DIV OF	MAN ARM	PP. PATH SI	LETTERMAN ARMY INSTITUTE OF RESEARCH	HO S	Ra U	ita List	ings	Without Masses	NTED:	PRINTED: 03-0ct-89 Page: 21
DOG/BEAGLE	AGLE	NI PRANCIS	CO, CA 9414	<b>.</b>			Study S	Data Listing by Animal Study Start Date: 07-Feb-89		SUB-ACUTE/
9 % 0 %	Animat	Sex/group /Subgroup	Cage Anisst Sex/group Date and Ti			time Op aken		ns / Comments		
<b>.</b>	19A00045	<b>x</b>	12-May-89 12-May-89	09:07 09:12	7 / 10:19	7:52	00 100 100 100 100 100 100 100 100 100	disoriented, slight soft stool, moderate increased resp depth, moderate hunched posture, moderate tremors, severe salivation, moderate		
			12-May-89	09:55	`	14:55		disoriented, moderate		
			15-May-89	08:06	8 / 0/	07:16 10:11	ŏ ₹	soft stool, severe disoriented moderate		
							· > •	Vositing		
							3 ت. ر	iremors, severe concerns and a severe concerns a severe concerns and a severe concerns a		
			15-May-89	08:18	_	14:53		SACESSIVE CITIST, MODEL AND SACESSIVE SACESSIVE SALEDIT		
			15-May-89	08:	0 / 0	07:21	)S 6	saft stool, slight		
			15-Hay-89		`	10:07	-	disoriented, moderate		
							<b>&gt;</b>	Vomiting		
							= .2	increased resp depth, slight		
							18	Splivation. Severe		
			15-May-89	08:50	9 / 14:00	:00	0	disoriented, moderate		
			·				. <b>=</b> ;	increased resp depth, slight		
							ň i	WOIL WICOL, WAVETO		
			15-May-89	09:10	10 / 07	:22		Canting Hoderste		
			15-May-89	09:18	10 / 10:17	1:17	₹. •	disoriented, moderate		
							¥ ;	Vostiting		
							≖. دَ	cremors, moderate increased resp depth, slight		
							€.	excessive thirst, slight		
							= ;	aractive, moderate		
			15-May-89	09:24	10 / 14:08	80:		editerior, enterior socios, estight booting, estight		
							Ė	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

			Ā	pper	Appendix	) Q	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
LETTERMAN OF RESPRESSION OF CONTRACTOR OF CO	IMAN ARNY FRES SUP TO OF SA	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAW FRANCISCO, CA 94129 DOG/BEAGLE	E OF RESERV GP	SEARC 94129	<b>.</b>	œ	aw Data L	istir D Stud	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M Data Listing by Animal Study Start Date: 07-Feb-89	PRINTED: 03-0ct-89 Page: 22 SUB-ACUTE/
C 20 40	Cage Animal	Cage Animal Sex/group Date and Time wumber /Subgroup Data was Entered	Date and	as En	Time	Study	Study Day/time Oper Data was Taken #	. Ope.		
3 80	8 89A00045 M/ 3/3	8 89A00045 M/ 3/3 15-May-89 09:34	15-May-89 09:34	68-	09:34	=======================================	11 / 07:30	•	panting, moderate hyperactive, moderate	
			15-May-89		09:39	=	11 / 10:10	٥	soft stool, moderate disoriented, slight vomiting transfers	
									excessive thirst, slight inactive, slight calivation moderate	
			15-May-89		97:60	=	11 / 14:27	٥	panting, slight	
			15-May-89		09:50	12	12 / 08:00	0.0	nyperactive, wilder hyperactive, &light Alebraiant anderste	
			8		77.60	-		•	Vomiting	
									tremors, slight increased resp depth, slight	
									inactive, slight	
									salivation, severe hunched posture, slight	
			15-May-89		65:60	12	_	0	disoriented, slight	
			15-May-89		10:07	£ ‡	/ 08:05	<b>о</b> 0	Soft stool, moderate	
			E - C -		- - -	2	•	•	Vomiting	
									tremors, moderate	
									excessive thirst, severe	
									inactive, moderate	
									bunched Dosture, moderate	
			15-Hay-89		10:16	13	13 / 15:46	٥	tremors, moderate	
									parting, slight hoperactive slight	
									hunched posture, slight	
			15-May-89		10:20	14	14 / 07:25	٥		
									יואלים פרנו אני פני פני	

			Aį	Appendix	Ω ×	(cor	(cont.):		INDIVIDUAL ANIMAL HI	HISTORIES	
LETTER DIV OF	RES SU	LETTERMAN ARMY INSTITUTE OF RESEARC DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO. CA 94129	TE OF RES	RESEARCH GP CA 94129		3 0	ata Lis	ting:	Raw Data Listings of Clinical Signs Without Mas Study Number: 88008M Data Listing by Animal	Masses PRINTED: 03-Oct-89 Page: 23	-89
DOG/BEAGLE	AGLE					•		tudy	Study Start Date: 07-Feb-89	SUB-ACUTE/	CUTE/
0) 1k	<u>.</u>	Animal Sex/group Date and Time Number /Subgroup Date was Entered	p Date	Tin		Study Day/time Data was Taken		<u>.</u>	Clinical signs / Comments		! ! !
<b>40</b>	8 89A00045	N/ 3/3	15-May-89 10:	-89 10:20 -89 10:25	4 4 1 1	14 / 07:25	1 1 1	00	excessive thirst, slight vomiting disoriented, slight inactive, slight excessive thirst, severe salivation, slight		• • •
			15-May-89	0.0	۰-	` `	14:57		panting, slight normal/no significant signs		
•	89A00052	H/ 3/4	15-May-89	7.	. <u>~</u> ×		07:25		normal/no significant signs		
						•					
			15-May-89	14:2	~ *	1 / 1	14:15 07:18	0.0	stight		
			15-May-	14:5	n 0-	` `	11:17		inactive, moderate		
								_	excessive thirst, moderate		
			15-May-89 15-May-89	15:0	<b>ء</b>		14:02 09:15	۰ م م	inactive, slight soft stool, slight		
			15-May-89	15:1	· <b>6</b> 0	. ~	11:04		vomiting		
								•	inactive, moderate excessive thirst, slight		
								<b>.</b>	sativation, moderate disoriented, moderate		
			15-May.		<b>9</b> 0 1	`	14:30		inactive, slight		
			15-May-89 15-May-89	-89 15:43 -89 15:48	m en	, , , ,	07:21 11:24	0 0	normal/no significant signs inactive moderate		
									vomiting		
									excessive thirst, severe salivation, moderate		
			15-Mav-89			`	90:7		disoriented, siight normal/no significant signs		
			16-Kay-89	-89 08:04	٠.٠٠		07:26	. 0.	soft stool, slight		
			16-Hay		80	`	1:21		Vositing		

			Appe	Appendix	D (cont.):		INDIVIDUAL ANIMAL HISTORIES		
LETTER DIV OF	FRES SUI	LETTERMAN ARMY INSTITUTE OF R.	E OF RESEARCH	# C#	Raw Data Li	isting S	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M	PRINTED: 03-0. Page: 24	03-0ct-89 24
DOG/BEAGLE	EAGLE	AN PRANCIS	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/Beagle			Study	Uata Listing by Animal Study Start Date: 07-Feb-89		SUB-ACUTE/
		Sex/group /Subgroup	Aniss Sex/group Date and Ti	Time		Oper.	Clinical signs / Comments		
	9 89A00052	•	M/ 3/4 16-May-89 08	08:08	5 / 11:21	•	excessive thirst, moderate		• • • • •
			16.Max.Ro	08.12	`	•	Salivation, moderate		
			16-May-89	08:15	6 / 07:55	• •	normal/no significant signs		
			16-May-89	08:19	. `	٥	moderate		
							vomiting		
							excessive thirst, moderate		
							salivation, moderate		
					•	c			
			16-MBY-89	08:25	06:50 / 6	> 0	normal/no significant signs		
			16-Year-01	08:40	` `	۰ ٥	moderate		
			10 - KBE - 01		•				
							excessive thirst goderate		
							Salivation, slight		
							disoriented, moderate		
			16-May-89	08:35	`	٥	normal/no significant signs		
			16-May-89	06:30	8 / 07:26	٥			
			16-May-89	09:36	`	0	=		
							vomiting		
							inactive, slight		
							excessive thirst, moderate		
							salivation, severe		
			,			•	disoriented, slight		
			16-May-89	06:60	8 / 14:00	•	lack of appetite, severe		
			16-May-89	09:55	9 / 07:19	•	normal/no significant signs		
			16-May-89	09:59	9 / 10:41	0	Vomiting.		
							inactive, slight		
							excessive (nirst, moderate		
							dispripated Boderate		
					•		lack of appetite, severe		
			16-May-89	10:04	` 〜	۰	normal/no significant signs		
			16-May-89	10:16	10 / 07:20	٥.	normal/no significant signs		
			16-May-89	10:20	_	٥	vositing		

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAW FRANCISCO, CA 94129 DOG/BEAGLE Cage Animal Sex/group Data was Entered # Number / Subgroup Data was Entered									
	PATH SER	OF RES RV GP D, CA 9	RESEARCH SP SA 94129		<b>₹</b>	z Date e	Listir E Stuc	Rew Data Listings of Clinical Signs Without Masses Study Number: 88008M Data Listing by Animal Study Start Date: 07-feb-89	PRINTED: 03-0ct-89 Page: 25 SUB-ACUTE/
	/group (	Date E	and 1	; 	Study Data w	Study Day/time Oper Data was Taken #	ae Oper	•	
9 89A00052 M/ 3/4		16-May-89 10:23 16-May-89 10:23 16-May-89 13:23 16-May-89 13:53 16-May-89 13:53 16-May-89 14:26 16-May-89 14:26 16-May-89 14:49 16-May-89 14:45 16-May-89 14:45 16-May-89 14:45	98 98 98 98 98 98 98 98 98 98 98 98 98 9		11 11 12 13 13 14 14 17 17 17 17 17 17 17 17 17 17 17 17 17	10 / 10:34 10 / 14:25 11 / 08:05 11 / 10:54 12 / 08:10 12 / 15:35 13 / 10:48 13 / 14:50 14 / 09:00 14 / 10:09		excessive thirst, moderate salivation, severe disoriented, slight normal/no significant signs normal/no significant signs normal/no significant signs inactive, slight excessive thirst, severe disoriented, moderate lack of appetite, moderate normal/no significant signs soft stool, slight excessive thirst, severe salivation, severe lack of appetite, moderate normal/no significant signs soft stool, moderate lack of appetite, moderate normal/no significant signs soft stool, moderate lack of appetite, moderate normal/no significant signs salivation, severe salivation, severe lack of appetite, moderate lack of appetite, moderate cxcessive thirst, severe salivation, severe salivation, severe excessive thirst, severe	

H Raw Data Listing  Das  Study Time Study Day/time Oper  Time Study Day/time Oper  14:56 14 / 14:30 9  15:05 15 / 07:38 9  15:05 15 / 07:38 9  15:05 15 / 09:00 9  15:05 1 / 10:00 9  15:15 2 / 14:17 9  08:29 3 / 08:50 9  08:39 3 / 14:31 9  08:39 3 / 14:31 9  08:59 4 / 14:00 9  09:02 5 / 08:23 9  09:07 5 / 14:33 9  09:07 6 / 14:37 9  09:07 6 / 14:33 9  09:07 6 / 14:37 9  09:08 6 / 10:26 9  09:43 6 / 14:27 9  09:48 7 / 09:00 9	Marka AANY ISSUE SEERERCH				Api	Appendix	Ω	(cont.):		INDIVIDUAL ANIMAL	HISTORIES		
Study Series   Stud	Study Sear   Strong Sear   S	LETTE!	RES SU	Y INSTITUTE	E OF RESEL	ARCH	<b></b>	taw Data L	isting S	itudy Musber: 88008m	Kasses	PRINTED: Page:	03-0ct-89 26
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08:51	08:51				08-May-8		7	`	٥	soft stool, moderate			
08:59	08:59				08-May-8		4	`	٥	vomiting			
08:59	08:59				•					hunched posture, slight			
08:59	08:59									disoriented, moderate			
09:02	09:02 5 / 08:23 9 09:07 5 / 14:33 9 09:20 6 / 09:00 9 09:20 6 / 09:00 9 09:28 6 / 10:26 9 09:43 6 / 14:27 9 09:48 7 / 09:00 9 09:53 7 / 10:15 9									tremors, slight			
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09:28 6 / 10:26 9 09:28 6 / 10:26 9 09:43 6 / 14:27 9 09:48 7 / 09:00 9 09:53 7 / 10:15 9	09:28 6 / 10:26 9 09:28 6 / 10:26 9 09:43 6 / 14:27 9 09:48 7 / 09:00 9 09:53 7 / 10:15 9				OR - May - 80		ď	`	0	disoriented slight			
09:28 6 / 10:26 9 09:43 6 / 14:27 9 09:48 7 / 09:00 9 09:53 7 / 10:15 9	09:28 6 / 10:26 9 09:43 6 / 14:27 9 09:48 7 / 09:00 9 09:53 7 / 10:15 9				08-May - 80		. 🔻	. `	• •	soft stool stight			
09:43 6 / 14:27 9 09:48 7 / 09:00 9 09:53 7 / 10:15 9	09:43 6 / 14:27 9 09:48 7 / 09:00 9 09:53 7 / 10:15 9				OR-May-RC		. ~		•	Volume to the second se			
09:43 6 / 14:27 9 09:48 7 / 09:00 9 09:53 7 / 10:15 9	09:43 6 / 14:27 9 09:48 7 / 09:00 9 09:53 7 / 10:15 9				)		•			hunched posture, stight			
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09:43 6 / 14:27 9 09:48 7 / 09:00 9 09:53 7 / 10:15 9	09:43 6 / 14:27 9 09:48 7 / 09:00 9 09:53 7 / 10:15 9									tremors, slight			
09:53 7 / 10:15 9	09:53 7 / 10:15 9				08-May-89		•	_	٥	disoriented, slight			
09:53 7 / 10:15 9	09:53 7 / 10:15 9				08-May-8			. ~	٥	soft stool, slight			
					08-Mey-85		-	•	٥	soft stool, moderate			
	hunched Dosture, slight									vomiting			

				<b>«</b>	ppe	Appendix	Ω	(cont.):	: ~	INDIVIDUAL		ANIMAL	HISTORIES		
LETTE DIV O	LETTERMAN ARMY INSTITUTE OF RESEARC DIV OF RES SUPP, PATM SERV GP	IV INSTI	TUTE -	OF RES	RESEARCH GP	I	œ	BW Data	Listi	Raw Data Listings of Clinical Signs Study Number: 88008M Data Listing by Appleal	Signs 88008M	Without Masses	Absses	PRINTED: Page:	PRINTED: 03-Oct-89 Page: 27
DOG/8EAG	DOG/BEAGLE		0 1 5 1 0	5			•		Stuc	Study Start Date: 07-Feb-89	07-Feb	-89			SUB-ACUTE/
0 Th	Cage Animal	Animal Sex/group Date and Time Mumber /Subgroup Date was Entered	o dno		and Bs En	Time Entered	Study	Study Day/time Oper Data was Taken #	ae Oper	Clinical signs / Comments	0) / su	Sents			
10	• •0	3 11/4/2	0 2	08-May-89	-89	09:53	7	7 / 10:15		disoriented, moderate tremors, moderate	Modera	ste.			
			0.0	08-May-89		09:58	~ •	/ 14:45		disoriented, slight	stight	· · · · · · · · · · · · · · · · · · ·			
			<b>.</b>	US-May-89 08-May-89		10:03	<b>0 00</b>		, o	normal/no significant signs vomiting	gnifica	ant signs			
										disoriented, slight	stight				
			č	08-M-80		10-15	•	/ 14:29		excessive thirst, moderate normal/no significant signs	irst, m anifica	noderate			
			ő	08-Hay-89		10:43	•	. `	6 0	hunched posture, slight	ure, st	ight			
				•						tremors, slight	ght				
			Ó	08-May-89		10:49	•	9 / 09:41	4	hunched posture,	ure, sl	slight			
										tremors, slight	ght				
										soft stool, slight	slight				
			Ó	08-May-89		10:56	Φ.	9 / 14:16	9	normal/no significant signs	gnifica	int signs			
			Ó	08-May-89		14:01	10	/ 07:3		hunched posture, slight	ure, st	ight			
										excessive thirst, slight	irst, s	ilight			
			Ó	08-May-89		14:06	10	10 / 10:44	6	hunched posture, slight	are, st	ight			
										excessive thirst, severe	irst, s	evere			
			Õ	08-May-89		14:10	10	10 / 14:29	6	hunched posture, slight	ure, st	ight			
				:		•	•			disoriented, stignt	Signe	۰,			
			ة د	US-MBY-89		14.16	= =	7 09:55	. o	normal/no significant signs	gnitica	ant signs			
			•	E	6	<u>.</u>	-			inactive cli	elioht, m	3.8.370			
			Ô	08-May-89	-89	14:29	Ξ	/ 14:00		normal/no sig	anifica	Significant Signs			
			ŏ	08-May-89	-89	14:32	12	/ 09:30	6 0		significant	int signs			
			Õ	08-May-89	-89	14:35	12	/ 11:34		normal/no significant	anifica				
			Õ	08-May-89	-89		12	/ 14:00		disoriented, slight	slight				
										lack of appetite, moderate	tite, m	noderate			
			Ó	08-May-89		14:40	13	/ 08:15	S O	disoriented, slight	slight	٠,			
			č	0 0		17.71		00.61 / 21	0	Lack of appetate, moderate	rste, m	noderate			
			>	ARH, O		7	2	0:31 /		lack of appetite, moderate	rite, m	oderate			
										excessive thirst, moderate	irst, m	oderate			
			õ	08-May-89		14:41	13 /	/ 14:10	<b>6</b> 0	disoriented, slight	slight				
			ŏ	08-May-89		14:50	14	7 07:4		lack of appetite, moderate	tite, m	noderate			

			Appendi	endix	<pre>D (cont.):</pre>		INDIVIDUAL ANIMAL HISTORIES	
LETTE DIV O	RMAN ARMI	LETTERMAN ARMY INSTITUTE OF RIDIV OF RES SUPP, PATH SERV GP	E OF RESEARCH ERV GP	#02	Raw Data L	isting	Raw Data Listings of Clinical Signs Without Masses Study Mumber: 88008M	PRINTED: 03-0ct-89 Page: 28
PRESI DOG/B	PRESIDIO OF SA DOG/BEAGLE	AN FRANCISE	SAN FRANCISCO, CA 94129	6		Dat Study	Data Listing by Animal Study Start Date: 07-feb-89	SUR-ACUTE/
() () ()		x/group Date /Subgroup Data	bra i	and Time		Oper *	linical signs / Comments	
10	10 89A00018	M/ 4/2	08-May-89 14:5	14:53	14 / 09:35	•	•	
			08-May-89	14:58	14 / 14:37	<b>о</b> о	normal/no significant signs	
Ξ	89A00048	E/4/E	11-May-89	14:34	· <b>~</b> ·	•	normal/no significant signs	
			11-MBY-89	14:59	<u> </u>	<b>~ ~</b>	excessive thirst, moderate normal/no significant signs	
			11-Hay-89	14:47	. <	٥	soft stool, slight	
			11-May-89	14:53	2 / 10:45	٥	vomiting	
							disoriented, slight excessive thirst slight	
			11-May-89	15:04	`	٥	normal/no significant signs	
			11-May-89	15:08	_	٥	soft stool, slight	
			11-May-89	15:12	3 / 11:00	٥.	disoriented, moderate	
			11-May-89	15:17	_	٥	disoriented, slight	
			11-May-39	15:24	\	0	soft stool, slight	
			11-May-89	15:30	4 / 10:47	٥	excessive thirst, moderate	
							disoriented, moderate	
							vomiting	
			11-May-89	15:3		Φ.	disoriented, slight	
			12-May-89	08:18	`	٥	normal/no significant signs	
			12-May-89	08:3	5 / 11:04	<b>5</b>	excessive thirst, moderate	
							disoriented, slight	
			:		,	(		
			12-May-69			> 0	normal/, o significant signs	
			12-MBY-09		`	•	SOTT STOOL, BODGFBTC	
			12-May-89		\	•	excessive thirst, moderate	
			12-May-89	09:04	6 / 15:31	o.	normal/no significant signs	
			12-May-89		\	0	normal/no significant signs	
			12-May-89		7 / 10:21	<b>o</b>	excessive thirst, moderate	
							soft stool, moderate	
			:			(	disoriented, slight	
			12-May-89	10:11	7 / 14:55	<b>)</b>		
			15-May 89	08:06	`	•	normal/no significant signs	

				~	Append	ndix	Ω	(cont.):	: (	INDIVIDUAL ANIMAL HISTORIES	
LETTE DIV O	# 10 T	MY INSTITUTE OF RESEARCHIPP, PATH SERV GP SAN FRANCISCO, CA 94129	TH SE	OF RE RV GP O, CA	RESEARCH P A 94129	# 6	ox	aw Date	Listi	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M Data Listing by Animal	PRINTED: 03-0ct-89 Page: 29
DOG/BEAGLE	EAGLE								Stu	Study Start Date: 37-feb-89	/ara-sas
9 9 9	Animal Sex/group Date and Ti-	Sex/grou	d o c	Sex/group Date and	pu e	Time	Study	Study Day/time Oper Oata was Taken #	me Oper	U	
=	11 89A00048 M/ 4/3 15-May-89 08:	· / ·		15-Mey-89	. 89.	08:10	•	8 / 10:14	6 7		
										vomiting	
				15-May-89	y-89	08:19	80	\			
				15-May-89	y-89	08:24	Φ	\	6 2		
				15-May-89	4-89	08:35	Φ.	/ 10:09			
				15-May-89	4-89	08:80	•	`			
				15-May-89	4-89	09:10	10	\		normal/no significant signs	
				15-May-89	V-89	09:18	10	_		disoriented, slight	
				•						inactive, slight	
				15-MBY	4-89	09:54	10	/ 14:09		_	
				15-May	68-4	09:34	=	. ~		soft stool, slight	
				15-May-89	68-4	05:60	=	_	^ =		
										excessive thirst, moderate	
				15-May-89	4-89	94:60	=	/ 14:28		normal/no	
				15-MBY-89	68-4		12	. ~.	6 00	soft stool, slight	
				15-May-89	68-7	95:60	12	/ 11:16			
										disoriented, moderate	
										excessive thirst, moderate	
				15-May-89	¥-89	09:59	12	/ 16:52			
				15-May-89	¥-89	10:01	13	`			
				15-May	¥-89	10:11	13	/ 10:20		disoriented, slight	
				15-May-80	y-80	10:16	13	`	6 2		
				15-HBY	y-89	10:21	14	_		soft stool, moderate	
				15-May	y-89	10:25	14	/ 10:29		excessive thirst, slight	
										disoriented, slight	
										inactive, slight	
				15-May-89	y-89	10:29	14	/ 14:58		_	
				15-May	4-89	10:31	15	`		normal/no significant signs	
12	12 89A00056	7/7 /#		15-May-89	68-A	14:18	• -	`	55 9	_	
				15-May	V-89	,4:23	-	/ 11:07			
										disoriented, moderate	
										inactive, slight	
										hunched posture, moderate	
				15-May-89	4-89	14:28	-	/ 14:17	6 2	-	
				15-May	58-A	14:54	7	/ 67:1			

The state of the				7	Appe	Appendix	Ω	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
Study Start Date: 07-Feb-89  set Skryproup Date and Time Study Day/lime Ope  ref Skuproup Date and Files Study Day/lime Ope  15-May-89 15:00 2 / 11:18 9 vomiting disoriented, moderate incrive, slight burnched posture, moderate incrive, slight incrive, sl	TTERMA V OF R ESIDIO	IN ARMY ES SUPI I OF SAI	INSTITUT P, PATH SI	E OF R ERV GP	ESEAR!	# 6	r	er Data	Listir	gs of Clinical Signs Without Masses Study Number: 88008M ata Listing by Animal	
Animal Sexygroup Date and Time Study Day/lime Oper Number (\$Logroup Date was Entered Date was Taken # Clinical signs / Comments younged to be a was Taken # Clinical signs / Comments younged to be a was Taken # Clinical signs / Comments younged to be a worked you sight to be a way-89 15:04 2 / 14:02 younged to be a worked you sight 15-May-89 15:05 3 / 11:05 younged to be a worked you would not you would yo	G/BEAG	:			•	•	•			ly Start Date: U7-Feb-89	SUB-ACUT
2 89900056 W/ 4/4 15-May-89 15:00 2 / 11:18 9 vomiting indertace indertace and indertace and indertace indertace indertace and i	,	umber	Sex/group /Subgroup	Date Date	E E	Time	Study	Day/tim	e Oper	Clinical signs / Comments	
15:25  15:25  15:25  17:02  15:25  17:02  15:25  17:02  15:36  17:30  15:44  4 / 07:21  9  15:49  4 / 14:06  9  08:09  5 / 11:23  9  08:12  6 / 07:24  9  08:12  08:14  6 / 10:43  9  08:25  08:25  08:25  08:25  08:25  08:25  08:25  08:25	12 89A	000056	7/7 /H	15-Na	y-89	15:00	. 7	/ 11:18	1 f f		
15:12 3 7 09:15 9 15:25 3 7 11:05 9 15:36 3 7 14:30 9 15:44 4 7 07:21 9 15:49 4 7 11:26 9 08:09 5 7 11:23 9 08:12 5 7 15:24 9 08:14 6 7 10:43 9 08:28 6 7 14:50 9 08:28 6 7 10:43 9				15-#8	y-89	15:04	2	\		disoriented, slight	
15:25 3 / 11:05 9 15:36 3 / 14:30 9 15:44 4 / 07:21 9 15:49 4 / 11:26 9 08:05 5 / 11:25 9 08:12 5 / 15:24 9 08:15 6 / 10:43 9 08:28 6 / 14:50 9 08:28 6 / 14:50 9 08:28 6 / 14:50 9				15-Na	14-89	15: .2	m	. 🔪		soft stool, moderate	
15:36 3 / 14:30 9 15:44 4 / 07:21 9 15:49 4 / 11:26 9 08:05 5 / 07:26 9 08:10 5 / 11:23 9 08:12 5 / 15:24 9 08:19 6 / 10:43 9 08:28 6 / 14:50 9 08:28 6 / 14:50 9 08:26 7 / 07:21 9				15-Ha	1y-89	15:25	*	_		vomiting	
15:36 3 / 14:30 9 15:44 4 / 07:21 9 15:49 4 / 11:26 9 08:05 5 / 07:26 9 08:10 5 / 11:23 9 08:12 5 / 15:24 9 08:19 6 / 10:43 9 08:28 6 / 14:50 9 08:28 6 / 14:50 9 08:28 7 / 07:21 9										disoriented, moderate	
15:36 3 / 14:30 9 15:44 4 / 07:21 9 15:49 4 / 11:26 9 08:05 6 / 14:06 9 08:05 5 / 07:26 9 08:12 5 / 15:24 9 08:15 6 / 10:43 9 08:28 6 / 14:50 9 08:28 6 / 14:50 9 08:28 7 / 07:21 9										Inactive, Slight	
15:44				10.1	9	15.34		02.71		hunched posture, stignt	
15:44					40.4	00.0	7	00.4		soft stool, moderate	
15:54				15-Ma	y-89	15:44	4	/ 07:21	٥	hunched posture, slight	
15:49										soft stool, moderate	
15:54				15-MB	y-89	15:49	7	/ 11:26	0	disoriented, slight	
15:54										inactive, moderate	
15:54										hunched posture, slight	
15:54										excessive thirst, slight	
08:05 5 / 07:26 9 08:09 5 / 11:23 9 08:12 5 / 15:24 9 08:16 6 / 07:56 9 08:19 6 / 10:43 9 08:23 6 / 14:50 9 08:26 7 / 07:21 9				15-Ma	y-89	15:54	4	/ 14:06		disoriented, slight	
08:09 5 / 11:23 9 08:12 5 / 15:24 9 08:16 6 / 07:56 9 08:19 6 / 10:43 9 08:23 6 / 14:50 9 08:26 7 / 07:21 9				16-Ma	y-89	08:05	2	/ 07:26		soft stool, slight	
08:09 5 / 11:23 9 08:12 5 / 15:24 9 08:16 6 / 07:56 9 08:19 6 / 10:43 9 08:23 6 / 14:50 9 08:26 7 / 07:21 9										excessive thirst, moderate	
08:19 5 / 11:23 9 9 08:12 5 / 15:24 9 08:16 6 / 07:56 9 08:19 6 / 10:43 9 08:24 7 / 07:21 9 08:24 7 / 10:36 9										panting, moderate	
08:12 5 / 15:24 9 08:16 6 / 07:56 9 08:19 6 / 10:43 9 08:23 6 / 14:50 9 08:31 7 / 07:21 9				16-Ma	y-89	08:09	~	/ 11:23		disoriented, slight	
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08:16 6 / 07:56 9 08:19 6 / 10:43 9 08:23 6 / 14:50 9 08:26 7 / 07:21 9 08:31 7 / 10:36 9				16-Ma	y-89	08:12	2	/ 15:24		normal/no significant signs	
08:19 6 / 10:43 9 08:23 6 / 14:50 9 08:26 7 / 07:21 9 08:31 7 / 10:36 9				16-HA	¥-89	08:16	9	/ 07:56		soft stool, moderate	
08:19 6 / 10:43 9 08:23 6 / 14:50 9 08:26 7 / 07:21 9										panting, moderate	
08:23 6 / 14:50 9 08:26 7 / 07:21 9 08:31 7 / 10:36 9				16-Ma	1y-89	08:19	•	/ 10:43	٥	disoriented, moderate	
08:23 6 / 14:50 9 08:26 7 / 07:21 9 08:31 7 / 10:36 9										inactive, slight	
08:25 6 / 14:50 9 08:26 7 / 07:21 9 08:31 7 / 10:36 9				;	•		•	•		nunched posture, stight	
08:31 7 / 10:36 9 disoriented, inactive, sl				16-Ma	69-X	08:23	٥ ٢	` `		normal/no significant signs	
inactive, st				14.41		08.31	- 1	• •			
					5		•		•		

			Api	Appendix	Ω	(cont.):		INDIVIDUAL ANIMAL	MAL HISTORIES	
LETTER DIV OF	HAN ARMI	PATH S	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	ARCH	~	aw Data L	istin	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M	thout Masses	PRINTED: 03-Oct-89 Page: 31
PRESIDIO OI DOG/BEAGLE	AGLE	AN FRANCIA	PRESIDIO OF SAM FRANCISCO, CA 94129 Dog/Beagle	129	1		Study	Data Listing by Animal Study Start Date: 07-Feb-89		SUB-ACUTE/
00 Mg	Animel	Sex/group /Subgroup	Cage Animal Sex/group Date and Time Number /Subgroup Data was Entere	d Time Entered	Study	Study Day/time Ope Data was Taken #	Oper	Clinical signs / Comments	nts	
12 8	39A00056	12 89A00056 M/ 4/4		9 08:36	7	7 / 14:52	· • •	inactive, slight	1	
			16-May-89	06: 5:	sc)	7 07:26	•	soft stool, slight panting, moderate		
			16-May-89	9 09:41	<b>e</b> C	/ 10:31	٥	vomiting		
			16-Mey-89	6:60	60		٥	disoriented, moderate disoriented, moderate		
			16-May-89	9 09:55	•	/ 07:19	٥	disoriented, slight		
			08.000	00.00	٥	67.04 / 0	٥	panting, moderate		
			D . A B L . D .		•	7.01		panting moderate		
								inactive, slight		
			16-May-89	9 10:05	0	9 / 14:03	٥	disoriented, moderate		
								panting, moderate		
								hyperactive, moderate		
				•	•		c	pacing, moderate		
			IO-May-39	.1:01	-	17:70 / 01	^	panting, moderate		
								pacing Goderate		
								soft stool, moderate		
			16-May-89	9 10:21	10	10 / 10:37	<b>о</b>	panting, moderate		
								hyperactive, slight		
								Dacing, moderate		
			16-May-89	9 10:24	10	10 / 14:26	٥	Danting, moderate		
								disoriented, slight		
			:	,	;		(	inactive, slight		
			16-May-89	77:51 6	=	50:80 / 11	>	disoriented, slight		
			16-May-89	9 13:29	1	11 / 11:42	٥	disoriented, moderate		
			•					pacing, slight		
								congested, moderate		
			16-May-89	9 13:53	-1	11 / 16:52	Φ.	disoriented, slight		
			3		•		c	Inactive, slight		
			10-MBY-09	/6:61 /	7	01:90 / 71	>	disoriented, singni		

		Append	endix	Ω	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	MY INSTITUTION PAPER SAN FRANCIS	TE OF RESEAR Serv GP Sco, ca 9412	H 06	α 0 3	Data List	tings St Dat	Rew Data Listings of Clinical Signs Without Masses Study Number: 88008M Data Listing by Animal Study Start Date: 07-Feb-89	PRINTED: 03-Oct-89 Page: 32 Sub-Acute/
Cage Animal Sex/group Date and Ti	Sex/group	p Date and	Time	Study Day	Study Day/time Oper	. 4		
/ Leggor *	r /Subgrou	Rusber /Subgroup Date sas Entered	ntered	Data was Taken	Taken	<b>*</b> :	Clinical signs / Comments	
12 89A00056	7/7 /H S	12 89A00056 M/ 4/4 16-May-89 13:57	13:57	12 / 08:10	08:10	<u>م</u>	panting, moderate	
		16-May-89	14:10	12 /	12 / 11:15	υ <del>υ</del> Φ	congested, slight disoriented, moderate	
				!	•		inactive, slight	
		16-May-89	14:27	12 /	12 / 15:36	ъ. 6	disoriented, slight	
						<b>-</b> 1	lyperactive, slight	
		16-May-89	14:35	13 / 07:15	07:15	غ ه	pacing, stignt hyperactive, stight	
						۵	pacing, slight	
						. vs	soft stool, slight	
							panting, moderate	
		16-May-89	14:40	13 /	13 / 10:50	P 6	disoriented, moderate	
						٠,٠٠	inactive, slight	
		16-May-89	14:46	13 / 14:27	14:27	ā o	panting, moderate	
						£	hyperactive, slight	
							pacing, slight	
		16-May-89	14:49	14 / 09:06	90:60	ã	panting, severe	
						£	hyperactive, slight	
					;		congested, slight	
		16-May-89	14:53	14 / 10:14	10:14	о О	disoriented, slight	
		00-20-4	17.57	02.71 / 71	02.71	Ēτ	hunched posture, slight	
				:	) •		Danting Boderate	
						Ē	hyperactive, severe	
						۵	pacing, severe	
		16-May-89	15:05	15 / 07:39	07:39	ā. O	panting, moderate	
						£	hyperactive, moderate	
							soft stool, moderate	
13 89A00004	4 H/ 5/1	03-May-89	14:59	-	09:52	č	normal/no significant signs	
		03-May-89		١ /	10:23		Vomiting	
						S.	salivation, moderate	
						، نب	tremors, moderate	
		;		•	;		Inscrive, moderate	
		.5-May-89	15:22	- (	14:55	č		
		3-May-89	15:58	\	%L:60		normal/no significant signs	

HISTORIES
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INDIVIDUAL
(cont.):
Appendix D

			ſ		4	1		•	ANDIATIONE PRIME HISTORIES		
LETTE DIV 0	LETTERMAN ARMY INSTITUTE OF DIV OF RES SUPP, PATH SERV (	Y IMSTITE	UTE OF RES	RESEARCH P	I	æ	W Data L	isting	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M	PRINTED: Page:	PRINTED: 03-Oct-89 Page: 33
PRES 1	PRESIDIO OF S. DOG/BEAGLE	AN FRANC	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/Beagle	94129				Study	Data Listing by Animal Study Start Date: 07-feb-89	,	SUB-ACUTE/
, g	Animal	Sex/grou	Cage Animal Sex/group Date and Time	and as En	Time	Study Data M	Study Day/time Oper Data was Taken #	Oper #		1 1 1 1 1 1	: : : : : :
13	13 89A00004	N/ 5/1	13 89A00004 M/ 5/1 03-May-89 15:	-89	15:44	:	2 / 10:20	6		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
									institch, sociate		
			03-May-89		15:52	7	14:59	٥	hunched posture, slight		
			04-May-89		08:01	m	7 08:55	٥	normal/no significant signs		
			04-May-89		08:05	m	75:60 /	٥	vomiting		
									salivation, moderate		
									tremors, moderate		
									inactive, slight		
									hunched posture, moderate		
			04-May-89		08:12	m	14:14	٥	normal/no significant signs		
			04-May-89		08:20	4	7 08:45	0			
			04-May-89		08:29	4	67:60 /	٥	vomiting		
			•						salivation, slight		
									tremors, moderate		
									inactive, slight		
									hunched posture, moderate		
			04-MBY-89		08:36	4	14:29	٥	tremors, slight		
			04-May-89		• •	S	/ 08:30	۰	soft stool, moderate		
			04-May-89		98:46	S	/ 11:24	٥	vomiting		
									salivation, moderate		
									tremors, moderate		
									inactive, slight		
									hunched posture, slight		
			04-May-89		08:51	Ś	14:00	<b>о</b> -	tremors, slight		
			04-May-89		09:01	9	/ 08:20	٥	soft stool, slight		
			04-May-89		20:60	•	10:47	Φ.	vomiting		
									salivation, severe		
									tremors, moderate		
									inactive, slight		
									hunched posture, slight		
			04-May-89		09:13	S	/ 14:30	٥.	normal/no significant signs		
			04-May-89		09:21	~	00:60 /	٥	tremors, slight		
			04-MBY-89		09:58	_	/ 10:01	٥	tresors, soderate		
									vomiting		

			4	Appendix	2	( - 1 - 1 - 1	•	INDIVIDUAL ANIMAL HISTORIES	
LETTER DIV OF	RES SUI	LETTERMAN ARMY INSTITUTE OF RESEARCED TO OF RESEARCED TO OF RES SUPF, PATH SERV GP 04120	E OF RESI	RESEARCH P 04120	8	w Data Li	isting S	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M Data listing by Animal	PRINTED: 03-Oct-89 Page: 34
DOG/BEAGLE	AGLE						Study	89	SUB-ACUTE/
0 #c	Animat Num. 17	Cage Animal Sex/group Date and Tim	Cate Cate Eas	Tim			II.	ns / Comments	
13 8	13 89A00004	13 89A00004 M/ 5/1	M/ 5/1 04-May-89 09:2				•	ght	
			04-May-89	89 09:35	<b>∠</b> 8	/ 14:23	٥٥	frencrs, slight tremors, slight	
			04-May-89			/ 09:51			
								vomiting salivation, moderate	
								inactive, slight hunched posture, slight	
								soft stool, slight	
			04-May-89	09:5		1 14:45		classiferied, singri tremors, slight	
			04-May-89		•	7 19:15	٥	normal/no significant signs	
			04-MBY-	10:1		/ 10:21		vomiting	
								salivation, moderate	
								tremors, moderate	
							•	Inactive, stigat	
			7-ABW-90	10:2		/ 14:20			
			04-May-89	10:3	10	/ 07:20	٥.	normal/no significant signs	
			04-May-89	89 10:45		/ 09:20		vomiting	
							'	salivation, moderate	
								Tremors, moderate	
								hunched posture, stiaht	
			04-May-89				_	excessive thirst, slight	
			04-Hay-89	89 14:09	==	/ 07:22	•	normal/no significant signs	
			. A B E . + D				-	まることをこう。 さこばこく けんきつつち 、 ちごらかけ	
							•	inactive, slight	
							- ~	nunched posture, stignt soft stool, moderate	
							-	disoriented, slight	

HISTORIES
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LETTERMA DIV OF F				į			
DRESIDIO OF	IN ARMI	LETTERMAN ARMY INSTITUTE OF R. DIV OF RES SUPP, PATH SERV GP DRESIDIO OF SAM FRANCISCO CA	IMY INSTITUTE OF RESEARCH Supp, Path Serv GP Sam Francisco da 04120	<b>.</b> .	Raw Date L18:	Rew Date Listings of Clinical Signs Without Messes Study Mumber: 88008M Date Listing by Anise	PRINTED: 03-Oct-89 Page: 35
DOG/BEAGLE	ire.	DOG/BEAGLE				Study Start Date: 07-feb-89	SUB-ACUTE/
0 #2 0 #2	Infinel	Sex/group /Subgroup	Date wa		Study Day/time Data was Taken	Clinical signs / Comments	
13 89400004	700001	N/ 5/1	04-May-89 04-May-89	14:21	11 / 10:18	excessive thirst, sevenormal/no significant	
			04-May-89	15:11	12 / 11:30		
						inactive, moderate excessive thirst, severe	
			04-May-89	15:17		excessive	
			08-VEM-40	15:23	13 / 10:53	9 normal/no significant signs 9 excessive thirst, moderate	
			04-May-89	15:27	. ~	normal/no	
			04-May-89	15:30	`	normal/no	
			04-MBY-89	15:42	14 / 11:23	inactive, slight	
			3	7773	,		
			08-X8M-70	15:50	15 / 06:45	9 soft stool slight	
14 89A00011	11000	M/ 5/2	05-May-89	14:51	. \		
			05-May-89	14:56	`	vomiting	
						salivation, severe	
			05-MBY-89	15:04	1 / 15:04	9 vomiting	
			05-May-89	15:09	`		
			05-May-89	15:17	2 / 10:24		
						Sallyation, moderate	
						Conserved news departs whicht	
			08-May-89	08:27	2 / 14:18	9 soft stool, moderate	
						hunched posture, slight	
			08-May-89	08:30	3 / 08:50	9 soft stool, slight	
			08-May-89	08:35	3 /. 10:19		
						hunched posture, moderate	
						trement case depth, moderate	
			08-May-89	08:39	3 / 14:32	y hunched posture, slight	

प्र<mark>तिस्ति हैं हैं पुराता</mark>क महिन्दा के उस अने करते हैं कि उसरे के दिन्दी हैं के उस कि 
		•	Appe	Appendix	) Q	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
LETTERMAN ARMY INSTITUTE OF R CIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA DOG/8EAGLE	LETTERMAN ARMY INSTITUTE OF RESEARC EIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/8EAGLE	UTE OF B	RESEARCH P A 94129	# 6	œ œ	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Listin	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M Data Listing by Animal Study Start Date: 07-řeb-89	PRINTED: 03-0ct-89 Page: 36 SUB-ACUTE/
Cage Ania	Cage Animal Sex/group Date and Time	up Date	and was Er	Time	Study Data M	Study Day/time Oper Data was Taken **			
14.894000	14 89A00011 M/ 5/2 08-May-89 08:39 08:42 08-May-89 08:52	M-80	08-May-89 08-May-89 08-May-89	08:39 08:42 08:52	m or or	3 / 14:32 4 / 08:35 4 / 11:49	000	increased resp depth, slight soft stool, moderate vointing	
		08-H-8	08-May-89	00:60	4	4 / 14:00	٥	increased resp depth, alight tremors, moderate soft stool, alight	
		08-N4 08-N4	08-May-89 08-May-89	00:03 00:03	in in	/ 08:24 / 11:11	• •	increased resp depth, moderate normal/no significant signs Vommiting hunched bosture, moderate	
		00-	9	00:16	v	7 14:34	۰	increased resp depth, slight excessive thirst, moderate inactive, slight hunched posture, slight	
		98-Yen-80	68-	09:20	<b>v</b> 0 v	00:60 /			
		78 - X8 X - X0	, 8- ye	05:30	•	0:30		vomiting salivation, moderate hunched posture, slight increased resp depth, slight tremors, slight inactive, slight	
		08-May-89 08-May-89	08-May-89 08-May-89	09:48	· ~ 1	6 / 14:28	<b>o</b> o	hunched posture, slight tremors, moderate soft stool, moderate normal/no significant signs	
		28 - Ye M - 80 0	08-May-89	65:60		7 / 14:45		vomiting salight burched posture, moderate tremors, moderate inactive, moderate disoriented, slight bunched posture, slight	

HISTORIES
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			App	Appendix	<pre>D (cont.):</pre>		INDIVIDUAL ANIMAL HISTORIES	
LETTE DIV O	RMAN ARM	LETTERMAN ARMY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP DEFECTION OF CAN EPAULISCO. CA	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP DESCRIPTOR SAN FRANCISCO FA 04.120	RCH 20	Raw Data	Listin	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M Data Listing by Animal	PRINTED: 03-0ct-89 Page: 37
000/8	DOG/BEAGLE					Study	Study Start Date: 07-Feb-89	SUB-ACUTE/
0 Ta	Animal	Sex/group /Subgroup	Cage Animal Sex/group Date and Time	Time Entered	Study Day/time Oper Data was Taken *	ae Oper	ပ	
7	14 89A00011		M/ 5/2 08-May-89 09:59	65:60	7 / 14:45	6	inactive, slight correspond reson death slight	
			08-May-89 08-May-89	10:04	8 / 09:34	0 0 2 2	tremors light trimes a light salight	
			•		•		hunched posture, slight increased resp depth, slight	
			08-May-89	10:16	8 / 14:30	6	excessive thirst, moderate tremors, slight	
			08-Mav-89		9 / 07:33		inactive, slight tremors, slight	
			08-May-89	10:49	6 / 09:45	0.		
							hunched posture, moderate	
							soft stoot, stignt increased resp depth, stight	
							excessive thirst, moderate	
			0				inactive, slight	
			00-MBY-00	70:01	/   :     /		Lineacis, scient	
							increased resp depth, slight	
			08-May-89	14:01	10 / 07:30	<b>6</b>	tremors, slight	
			08-May-89		10 / 10:43		tremors, slight	
							noncrea postale, modelate soft stool, s(faht	
							excessive thirst, moderate	
							inactive, slight	
			08-May-89	14:11	10 / 14:30	•		
							hunched posture, slight	
			08.7.4		11 / 00.54		TORULT NO. WILDER	
			08-X8V-89	14:24	11 / 12:25	. 0	exceptive thirty goderate	
			08-May-89	14:30	11 / 14:00	6		
					;			
			08-May-89	14:33	12 / 09:30	6		
			08-Mey-89		12 / 11:4.		inactive, alight	

			Ą	Appendix	Ω <b>x</b>	(co	(cont.):		INDIVIDUAL	ANIMAL		HISTORIES	
LETTERMA DIV OF R	ES SUPP	LETTERMAN ARMY INSTITUTE OF R. DIV OF RES SUPP, PATH SERV GP	E OF RES	RESEARCH 3P		Raw D	ata Lis	tíng: Si	Raw Data Listings of Clinical Signs Without Study Number: 88008M	ins Wit	thout Me	Masses	PRINTED: 03-Oct-89 Page: 38
PrESIDIO O DOG/BEAGLE	OF SAN	PrESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	5 V) (0)	,				Study	Data Listing by Animal Study Start Date: 07-Feb-89	mal eb-89			SUB-AC
Cage Animal	Animal Se Number /S	mal Sex/group ber /Subgroup	Oste La	Anisal Sex/group Date and Time Number /Subgroup Data was Entered	•	tudy Day/t	r a e		Clinical signs / Comments	Соммел	ıts		
16 891	14 89A00011 P	M/ 5/2	08-May-89 08-May-89	14 89A00011 M/ 5/2 08-May-89 14:35	•	12 / 11:43	2 / 11:43 2 / 14:00	00	excessive thirst, slight inactive, slight	stigh	, t		
			08-May-89 08-May-89	-89 14:41 -89 14:44		13 / 0	08:15 12:15	00	lack of appetite, lack of appetite, lack of appetite, excessive thirst,	slight slight slight moderate	of of of of		
			08-May-89	-89 14:47		13 / 1	/ 14:10	٥	salivation, moderate lack of appetite, mo	moderate	a te		
			08-May-89 08-May-89	-89 14:50 -89 14:53		14 / 0 14 / 0	07:44 09:39	00	lack of appetite, mo				
									salivation, moderate vomiting increased resp depth,		slight		
			08-May-89	-89 14:59		14 / 1	14:39		salivation, severe tremors, moderate				
15 894	89A00046	M/ 5/3	11-May-89 11-May-89 11-May-89			• • •	09:30 10:58		normat/no significant vomiting		s igns		
			11-May-89 11-May-89 11-May-89	-89 14:43 -89 14:47 -89 14:54	<b>м</b> ► - •	2 / 0	14:46 07:23 10:49	000		cant s	signs		
			11-May-89 11-May-89 11-May-89	-89 15:04 -89 15:08 -89 15:13	مدودون	3 / 0	14:11 07:15 11:00	000	excessive thirst, stignt normal/no significant si normal/no significant si vomiting inactive, slight		signs signs signs		
			11-May-89 11-May-89 11-May-89	-89 15:17 -89 15:24 -89 15:30	<b>N.</b> • • •	3 / 1 4 / 0 / 4 / 1	14:00 09:10 10:48	000	excessive thirst, moderate salivation, moderate normal/no significant sign normal/no significant sign vomiting	·	rate signs signs		
			11-Hay-89 12-Hay-89	-89 15:34 -89 08:18	س	5 / 0	14:30 07:15	00	disoriented, moderate normal/no significant normal/no significant		s ígns s ígns		

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			Appe	Appendix	<u>ن</u> ۵	(cont.):	••	INDIVIDUAL ANIMAL HISTORIES	
LETTE! DIV OF	RHAN ARM F RES SUI	LETTERMAN ARMY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP PRESSION OF SAM FRANCISCO. CA	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP PRESIDIO OF SAN FRANCISCO DA 04.120	. O.	8	, Data Li	sting S	Raw Data Listings of Clinical Signs Without Masses Study Mumber: 88008M Data listing by Animal	PRINTED: 03-Oct-89 Page: 39
DOG/BEAGLE	EAGLE						Study	Study Start Date: 07-Feb-89	SUB
0 4	Animel	Sex/group /Subgroup	Cage Animal Sex/group Date and Time	Time	•	Study Day/time Oper Data was Taken #	Oper	/ Comments	:
15	89A00046	15 89A00046 M/ 5/3	15 89A00046 M/ 5/3 12-May-89 08:36	08:36	2 / 3	5 / 11:07	6	inactive, moderate excessive thirst, moderate excessive thirst, moderate	
			12-May-89 12-May-89	08:44	v 0	/ 14:03	<u>۰</u> ۰	normal/no significent signs	
			12-May-89			/ 11:06		inactive, a 'ght	
								excessive thirsk, skiight disoriented, skiight	
			12-May-89			/ 15:32		normal/no significant signs	
			12-May-89	09:08	- ~	10:24	> 0	norman/no significant signs inactive, stinht	
			•		•			excessive thirst, slight	
								disoriented, moderate	
			12-May-89	10:11	7	14:55	٥		
			15-May-89	08:06	80	07:17	ο.	normal/no significant signs	
			15-May-89	08:12	80	10:16	•	vomiting	
								disoriented, slight	
					,		•	Theory ve, student	
			15-184-89	08:19	<b>0</b> 0	/ 14:54	<b>&gt; 0</b>	TOBOTIVE, SEVERA	
				)	•	1		hunched posture, slight	
			15-May-89	08:36	6	9 / 10:13	٥	inactive, slight	
								hunched posture, slight	
								disoriented, moderate	
			:	,	(	,	(	tremors, moderate	
			15-May-89	16:80	>	00:51 / 6	>	Thective, strength	
			OR LYNN, TH	00.10	•	07.33	o		
			15-May-89	09:10	2 2	10 / 10:25	• 0	nonched bostone, moderate	
								disoriented, slight	
								inactive, slight	
			15-May-89	09:24	10 ,	14:08	٥		
			15-May-89	09:34	=	/ 07:32	٥		
			15-May-89	09:41	= '	10:16	٥	disoriented, slight	

				Appendix	ndix	<b>O</b>	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
LETTERMAN ARMY IN DIV OF RES SUPP.	AN ARM	DIV OF RES SUPP, PATH SERV (	PATH SERV GP	RESEARCH	± ,	σx	aw Data Li	sting S	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M	PRINTED: 03-Oct-89 Page: 40
PRESIDIO O DOG/BEAGLE	O OF S	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/Beagle	3 '03s	A 94129	<b>.</b>				Data Listing by Animal Study Start Date: 07-Feb-89	SUB-ACUTE/
0 % 0 %	Animel	Animal Sex/group Date and Time Number /Subgroup Date was Entered	up Date	and Time	T'me otered	Study	ke a		ns / Comments	
15 89	A00046	15 89A00046 M/ 5/3	•	15ay-89 09:41	09:41	-	11 / 10:16	•	inactive, moderate hunched posture, moderate fremors, alight	
			15. 1. 2. 1. 2.	15-May-89 15-May-89 15-May-89	09:46 09:50	11 21 21	/ 14:29 / 08:00 / 11:21	000	normal/no significant signs normal/no significant signs discripted moderate	
									inactive, moderate hunched posture, slight	
			15-K	15-May-89 15-May-89	10:00 10:07	13	/ 16:52 / 08:05	00	disoriented, slight normal/no significant signs	
			15-X	15-May-89	10:12	13	`	٥	disoriented, slight inactive, slight	
									hunched posture, slight excessive thirst, moderate	
			15-H	15-May-89	10:17	13	/ 15:47	۰	disoriented, slight	
			15-H	15-May-89	10:21	7.	/ 07:26	٥. ٥		
			12-K	15-MBY-89	97:01	7	`	>	disoriented, slight tremors, moderate	
									excessive thirst, moderate	
			15-H	15-May-89	10:27	14	_	٥	inactive, moderate inactive, slight	
14 80	70007408	* * * * * * * * * * * * * * * * * * * *	15-H	15-May-89	10:31	<b>₹</b> •	/ 08:00	۰ ۰	disoriented, slight	
) ?		Ì	03-N	03-May-89	15:16	-	. 🔪	ۍ.		
									nunched posture, moderace solitor, moderate disoriated, moderate	
			03-H		15:22		` `	~ ·	hunched posture, stight	
			03-4	03-May-69	15:45	<b>,</b> ~	/ 10:25	, O	norman/no significant signs vomiting	
									hunched posture, moderate disoriented, moderate	
			03-H 04-H	03-May-89 04-May-89	15:52 08:01	9 N	; 15:00 / 08:54	00	hunched posture, slight normal/no significant signs	

HISTORIES
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			App	Appendix	۵	(cont.):		INDIVIDUAL ANIMAL HISTORIES		
LETTERMA DIV OF R	N ARMY ES SUP	LETTERMAN ARMY INSTITUTE OF RIDIV OF RES SUPP, PATH SERV GP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP DARKING OF CAN SPANTISCO FA 04.120	# C#	S.	M Date L	isting	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M Data listing by Adimal	PRINTED: 03-Oct-89 Page: 41	8
DOG/BEAGLE	֓֞֜֞֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	I A A A A A	מרחי רא אינו				Stud	89	V- 90S	1TE/
₹ Z	nimat	Sex/group /Subgroup	Cage Animal Sex/group Date and Time # Number / Subgroup Data was Entered	Time	Study Date W	Study Day/time Oper Date was Taken #	Oper *	ents		• •
16 B9A	0000	16 89A00007 M/ 6/1	89A00007 M/ 6/1 04-May-89 08:06	08:06	m	3 / 10:04		Vomiting boxture moderate	1	•
			:				•	disorirated, Boderate		
			04-May-89	08:12	n æ	7 14:14	> 0	normal/no significant signs normal/no significant signs		
			04-May-89				٥			
								hunched posture, slight salivation moderate		
			04-May-89			7 14:30	o (	normal/no significant signs		
			08-X8X-70	08:41	n v	/ 08:50	> 0	soft stool, moderate		
			(O - KBL - *O		•	3				
								noncode poster, moderate selivation, moderate		
								tremors, slight		
			04-May-89	08:52	ν.	5 / 14:00	٥	hunched posture, slight		
								tremors, slight		
			04-May-89	09:05	9	/ 08:20	٥	soft stool, slight		
			04-May-89		•	10:48	٥	vomiting		
								hunched posture, slight		
								salivation, moderate		
								disoriented, slight		
								tremors, slight		
							,	excessive thirst, severe		
			04-May-89		•	/ 14:30	0	hunched posture, slight		
			04-May-89	09:21	_	00:60 /	•	soft stool, slight		
			04-May-89		~	/ 10:02	0	vomiting		
								hunched posture, moderate		
								PROPERTY MESONS		
								inactive, slight		
			04-MBY-89	09:36	,-	7 / 14:23	٥	hunched posture, slight		
								tremors, slight		
			04-May-89	09:41	<b>8</b> 0	8 / 08:42	٥	remors, slight		

		Αp	Appendix	dix	D (cont.):		INDIVIDUAL ANIMAL HISTORIES	
LETTERMAN ARMY MASTITUTE OF RESEARCDIV OF RES SUPP, PATH SERV GPPRESIDIO OF SAN FRANCISCO, CA 9412900G/BEAGLE	NSTITUT P, PATH S N FRANCIS	E OF RESI ERV GP CO, CA 9.	RESEARCH IP IA 94129		Raw Data Li	sting be Study	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M Data Listing by Animal Study Start Date: 07-Feb-89	PRINTED: 03-Oct-89 Page: 42 SUB-ACUTE/
Cage Animal Sex/group Date and # Number /Subgroup Date was En	Animal Sex/group Date and Time Number /Subgroup Datu was Entered	Oate 19	nd s Ent		Study Day/time Data was Taken	Oper	Clinical signs / Comments	
16 89A00007 N 6/1	[/9 /#	M/ 6/1 04-May-89 09:54 04-May-89 09:59 04-May-89 10:10 04-May-89 10:24 04-May-89 10:36 04-May-89 10:52 04-May-89 10:52 04-May-89 10:52 04-May-89 10:52	88 88 89 89 89 89 89 89 89 89 89 89 89 8		8 / 08:42 8 / 09:56 9 / 10:37 9 / 10:37 10 / 07:21 10 / 09:22 11 / 09:22 11 / 10:22		soft stool, slight tremors, moderate soft stool, slight vomiting hunched posture, slight salivation, moderate disoriented, moderate excessive thirst, moderate inactive, slight salivation, slight salivation, slight salivation, slight vomiting hunched posture, slight tremors, slight tremors, slight vomiting hunched posture, slight normal/no slight soft stool, slight tremors, slight cxcessive thirst, moderate salivation, slight hunched posture, moderate salivation, slight cxcessive thirst, moderate inactive, slight excessive thirst, moderate inactive, slight womiting hunched posture, moderate inactive, slight excessive thirst, moderate inactive, slight womiting hunched posture, moderate salivating hunched posture, moderate salivation, slight salivation, slight	
							disoriented, slight tremors, slight excessive thirst, severe	

HISTORIES
ANIMAL
INDIVIDUAL
(cont.):
Appendix D

The color of the				App	Appendix	D (cont.)		INDIVIDUAL ANIMAL BISTORIES		
Study  Time Study Day/time Oper  tered Data was Taken #  14:43	LETTERMA DIV OF RI PRESIDIO	A ARMI ES SUF OF SA	T INSTITUT PP, PATH S	E OF RESEAR ERV GP CO. CA 9412		Raw Data Li	sting	is of Clinical Signs Without Masses trudy Number: 88008M ta Listing by Animal	PRINTED: 03-0ct-89 Page: 43	80
Animal Sex/group Date and Time Study Day/time Oper Number /Subgroup Data was Entered Data was Taken # 9A00007 M/ 6/1 06-Nay-89 14:43 11/14:23 9 06-Nay-89 15:12 12/11:35 9 06-Nay-89 15:12 12/11:35 9 06-Nay-89 15:17 12/14:10 9 06-Nay-89 15:24 13/10:58 9 06-Nay-89 15:27 13/14:00 9 06-Nay-89 15:27 13/14:00 9 06-Nay-89 15:27 13/14:00 9 06-Nay-89 15:27 13/14:00 9 06-Nay-89 15:27 13/14:01 9 06-Nay-89 16:47 2/0:25 9 11-Nay-89 16:47 2/0:25 9 11-Nay-89 16:47 2/0:25 9 11-Nay-89 16:47 2/10:51 9 11-Nay-89 15:05 2/10:51 9 11-Nay-89 15:05 2/10:51 9 11-Nay-89 15:05 3/0:16 9 11-Nay-89 15:05 3/0:16 9 11-Nay-89 15:14 3/11:05 9	DOG/BEAG	<b>.</b>					Study	, Start Date: 07-Feb-89	SUB-ACUTE/	116/
/Subgroup Data was Entered Data was Taken # / 6/1 06-May-89 14:43 11 / 14:23 9 06-May-89 15:12 12 / 11:35 9 06-May-89 15:12 12 / 11:35 9 06-May-89 15:12 12 / 11:35 9 06-May-89 15:12 13 / 10:58 9 06-May-89 15:24 13 / 10:58 9 06-May-89 15:24 13 / 10:58 9 06-May-89 15:24 13 / 10:58 9 06-May-89 15:26 14 / 11:28 9 06-May-89 15:45 14 / 11:28 9 11-May-89 15:40 14:40 17 / 10:59 9 11-May-89 14:40 17 / 10:59 9 11-May-89 14:47 2 / 10:51 9 11-May-89 15:05 2 / 14:14 9 11-May-89 15:05 2 / 14:14 9 11-May-89 15:05 2 / 14:14 9 11-May-89 15:14 3 / 11:05 9		nime!	Sex/group	Date and	Time	Study Day/time	Oper			
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89A00050 M/ 6/3 11-May-89 15:46 14 / 14:01 9 normal/no 04-May-89 15:50 15 / 06:45 9 normal/no 11-May-89 14:40 1 / 10:59 9 excessive tremors, m inactive, salivation 11-May-89 14:44 1 / 14:52 9 tremors, m inactive, salivation 11-May-89 14:47 2 / 07:25 9 normal/no 11-May-89 14:54 2 / 10:51 9 excessive tremors, salivation 11-May-89 15:05 2 / 14:14 9 inactive, vomiting hunched po 11-May-89 15:08 3 / 07:16 9 tremors, salinating hunched po inactive, vomiting hunched po hunched po hunched po hunched po				•				inactive, moderate		
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89A00050 M/ 6/3 11-May-89 15:50 15 / 06:45 9 normat/no 11-May-89 14:40 1 / 10:59 9 excessive tremors, minactive, 11-May-89 14:40 1 / 14:52 9 tremors, salivation 11-May-89 14:47 2 / 07:25 9 normat/no 11-May-89 14:54 2 / 10:51 9 excessive tremors, sinactive, vomiting hunched po 11-May-89 15:05 2 / 14:14 9 inactive, hunched po 11-May-89 15:14 3 / 11:05 9 tremors, sinactive, normating hunched po excessive tremors, sinactive, normating hunched po hunched po excessive tremors, mactive, vomiting hunched po hunched po				04-May-89	15:46	`	٥			
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14:54 2 / 07:25 9 14:54 2 / 10:51 9 15:05 2 / 14:14 9 15:08 3 / 07:16 9 15:14 3 / 11:05 9				11-May-89	14:44	`	٥	tremors, slight		
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15:05 2 / 14:14 9 15:08 3 / 07:16 9 15:14 3 / 11:05 9				11-May-89	14:54	\	۰	excessive thirst, moderate		
inactive, moderat vomiting hunched posture, 15:05 2 / 14:14 9 inactive, slight hunched posture, 15:08 3 / 07:16 9 tremors, slight 15:14 3 / 11:05 9 tremors, moderate excessive thirst, inactive, moderate vomiting hunched posture,								tremors, severe		
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15:08 3 / 07:16 9 15:14 3 / 11:05 9				·						
15:14 3 / 11:05 9				11-May-89	15:08		٥	tremors, slight		
				11-May-89	15:14		٥	tremors, moderate		
inactive, moderate vomiting hunched posture, moderate						-		excessive thirst, slight		
vomiting hunched posture, moderate								inactive, moderate		
hunched posture, moderate								VOE11109		
								hunched posture, moderate		

ANIMAL HISTORIES
ANIMAL
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Appendix

			App	Appendix	) a	n (conc.)		CHANCICAL PRIMARY MADOLVIOLE	
LETTE	ERMAN ARM OF RES SUI	LETTERMAN ARMY INSTITUTE OF R DIV OF RES SUPP. PATH SERV GP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP	RCN	33 63 73	Data Li	sting S	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M	PRINTED: 03-Oct-89 Page: 44
PRES	PRESIDIO OF S. DOG/BEAGLE	AN FRANCIS		59			Study	Data Listing by Animal Study Start Date: 07-Feb-89	/SUB-ACUTE/
989		Sex/group /Subgroup	Animal Sex/group Date and Time Number /Subgroup Date was Entered	Time	Study D Data wa	Study Day/time Oper Data was Taken #	Oper	Clinical signs / Comments	
11	89400050	17 89A00050 M/ 6/3	A00050 M/ 6/3 11-May-89 15:18	15:18	3 /	3 / 14:01	. •	freadrs, moderate inscrive, slight	
			11-May-89 11-May-89	15:24	44	4 / 09:10 4 / 10:51	٥.٥	remore, slight vomiting hunched bosture, slight	
								TITETOTE, SEVELE FACTORENTY OF THIST SOCIETY	
			11-May-89	15:35	•	4 / 14:30	٥		
			12-Nay-89	08:30	8	5 / 07:16	٥		
			12-May-89	08:37	2 /	5 / 11:09	٥	Autonotes posture, significations, significati	
								ECHICAGE POSICION STRUCTURES CONTROL TRICKS TO THE STRUCTURE BOODERSTORM	
			12-May-89	08:44	S	5 / 14:03	۰	tremore, silont	
			12-May-89	08:48	9	6 / 07:22	•	TOTAL	
			12-May-89	00:60	•	6 / 11:07	۰	tremors, alight	
								inactive, slight salivation, slight	
			12-May-89	09:05	•	15:27	۰	nunched posture, strunt normal/no significant signs	
			12-May-89		~ ~	/ 07:55 / 10:25	<b>0</b> 0	inactive, slight inactive, moderate	
			12-May-89 10:12	10:12	, ,	7 / 14:55	٠	vomiting hunched posture, severe inscrive, slight tremors, slight	

LETTERMAM ARMY INSTITUTE OF RESEARCH  DIVIDED (S. EKS. SUMP. PATH. SERV OF  DATA LISTING PATH. SERV OF  DATA LISTING PATH. SERV OF  STUDY SEAT DATE: 0.07-feb-89  STUDY SEAT DATE: 0.7-feb-89  Cage Animal Sex/group Date and Time StUDY DAY/LIME OF CITICAL SIGNS  IS-May-89 08:17 / 14:55 9 dissoriented, slight  15-May-89 08:17 / 14:55 9 dissoriented, slight  15-May-89 08:27 9 / 07:17 9 tremory, slight  15-May-89 08:27 9 / 07:23 9 tremory, slight  15-May-89 08:27 9 / 07:23 9 tremory, slight  15-May-89 08:27 9 / 07:23 9 tremory, slight  15-May-89 08:27 9 / 10:14 9 dissoriented, moderate  IN-May-89 08:28 11 / 07:22 9 tremory, slight  IN-May-89 08:28 11 / 07:22 9 tremory, slight  IN-May-89 09:25 11 / 10:26 9 tremory, slight  IN-May-89 09:27 11 / 10:26 0 tremory, slight  IN-May-89 09:27 11 / 10:26 0 tremory, slig				Ā	Appendix	dix	٥	(cont.):	::	INDIA	INDIVIDUAL	ANIMAL	HISTORIES		
Time Study Day/time Oper 10:12 7 / 14:55 9 08:07 8 / 07:19 9 10:17 9 10:17 9 10:17 9 10:17 9 10:17 9 10:17 9 10:17 9 10:17 9 10:17 9 10:17 9 10:17 9 10:17 9 10:17 9 10:17 9 10:17 9 10:17 9 10:18 9 10:17 9 10:18 9 10:18 9	LETTE! DIV O! PRES!C	RMAN ARMI F (ES SUF SE) OF SA	PE PATH SING FRANCIS	E OF RECO. CA CO. CA C	SEARCH 94.129	-	œ	aw Data	Listi	ngs of Cl Study Nu Data List dy Start	inical Simber: 880 ing by An	gns Without 08M imal Feb-89	0 0 0 0 0 0	PRINTED :	PRINTED: 03-0ct-89 Page: 45 SUB-ACUTE/
7 / 14:55 8 / 07:19 8 / 10:17 9 / 07:23 9 / 10:14 9 / 10:12 9 / 10:26 10 / 10:26 11 / 07:17 9 / 14:08 11 / 07:17		Animel	Sex/group /Subgroup	0000	and ss Ent	Time	Study	Day/ti	ae Ope		, subis 1	Comments			
8 / 07:19 9 1 8 / 10:17 9 1 8 / 14:55 9 9 1 9 / 07:23 9 1 9 / 10:14 9 0 10 / 07:22 9 1 10 / 10:26 9 1 11 / 07:17 9 1 11 / 10:18 9	17.	19400050	M/ 6/3	12-Ney	-89	10:12		, -			nted, sti	ght			
08:20				15-May	68-	08:07	<b>60</b> 9	_			, slight				
08:20				15-May		28:13	10	`			e modera	بدر			
08:20										disorie	nted, mod	erate			
08:20										vomitin	, Ga				
08:27											posture,				
08:57 9 / 07:23 9 08:57 9 / 10:14 9 08:53 9 / 10:14 9 09:20 10 / 10:26 9 09:25 10 / 14:08 9 09:25 11 / 07:17 9 09:42 11 / 10:18 9				15-May		08:80	80	/ 14:5		-	, stight				
08:53 9 / 07:23 9 08:53 9 / 08:53 9 / 10:14 9 0 09:20 10 / 10:26 9 0 09:25 10 / 14:08 9 09:25 11 / 07:17 9 09:42 11 / 10:18 9										_	e, slight				
08:53 9 / 10:14 9 08:53 9 / 14:00 9 09:11 10 / 07:22 9 09:20 10 / 10:26 9 09:25 10 / 14:08 9 09:35 11 / 07:17 9				15-May		08:27	Φ.	7 07:2		٠ -	, slight				
08:53 9 / 10:14 9 6 9 9 9 1 10:14 9 9 9 9 9 9 1 1 10 / 07:22 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9											e, slight				
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08:53 9 / 14:00 9 0 09:11 10 / 07:22 9 0 09:20 10 / 10:26 9 09:25 10 / 14:08 9 09:35 11 / 07:17 9 09:42 11 / 10:18 9										inactiv	e, modera	ıte			
09:25										vomitir	6				
08:53 9 / 14:00 9 0 09:11 10 / 07:22 9 0 09:20 10 / 10:26 9 0 09:25 10 / 14:08 9 09:35 11 / 07:17 9 09:42 11 / 10:18 9										hunched	posture,	moderate			
09:20 10 / 07:22 9 10 / 10:26 9 10 / 10:26 9 10 / 14:08 9 10 / 14:08 9 11 / 07:17 9 11 / 10:18 9 10 / 14:08 9				15-May		08:53	3	3:71 /			nted, sli	ght			
09:20 10 / 07:22 9 109:20 10 / 10:26 9 109:25 10 / 14:08 9 09:35 11 / 07:17 9 09:42 11 / 10:18 9										inactiv	e, slight				
09:20 10 / 07:22 9 109:20 10 / 10:26 9 109:25 10 / 14:08 9 09:35 11 / 07:17 9 09:42 11 / 10:18 9										hunched	posture,	moderate			
09:20										tremors	, moderat	به			
09:20 10 / 10:26 9 109:25 10 / 14:08 9 09:35 11 / 07:17 9 09:42 11 / 10:18 9											appet i te	, severe			
09:20 10 / 10:26 9 09:25 10 / 14:08 9 09:35 11 / 07:17 9 09:42 11 / 10:18 9				15-May		09:11	10	2:20 / 1		E	posture,	slight			
09:25 10 / 10:26 9 09:25 10 / 14:08 9 09:35 11 / 07:17 9 09:42 11 / 10:18 9											, moderal				
09:25 10 / 14:08 9 09:35 11 / 07:17 9 09:42 11 / 10:18 9				15-May		08:50	7	2:01 / 1		_	posture,	Moderate			
09:25 10 / 14:08 9 09:35 11 / 07:17 9 09:42 11 / 10:18 9										tremer:	, modera	e .			
09:25 10 / 14:08 9 09:35 11 / 07:17 9 09:42 11 / 10:18 9										01 108 10	inted, moc	Jeraic			
09:25 10 / 14:08 9 09:35 11 / 07:17 9 09:42 11 / 10:18 9										-	e, moder.	יים			
09:35 11 / 07:17 9 09:42 11 / 10:18 9				15-MBY		09:25	7	): 7( / (		ب	stight.				
09:35 11 / 07:17 9 09:42 11 / 10:18 9										-	e, stight				
09:42 11 / 10:18 9				15-May		09:35	Ξ	/ 07:1			e, stight	,			
09:42 11 / 10:18 9										disori	inted, mor	בי פוע			
09:42 11 / 10:18 9											posture,	moderate			
disoriented, slight hunched posture, moderate tremors, slight				15-May		27:60	=	7 10:1			e, moder.	i e			
nunched posture, moderate tremors, slight										di sorii	inted, st	gnt			
tremors, school										PUNCHE	Posture,	Moderate			
										TLEBOLE	i, stignt				

			<	Appendi	ndix	Q	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
LETTER DIV OF	FRES SUI	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	E OF RE	SEARC	×	œ	aw Data L	stin	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M	PRINTED: 03.0ct-89 Page: 46
DOG/BEAGLE	EAGLE	PRESIDIO OF SAN FRANCISCO, CA VAIZY DOG/BEAGLE	נס, כא	67156				Stud	Dete Listing by Anime! Study Stert Dete: 07-feb-89	SUB-ACUTE/
0.00	Animal	Cage Animal Sex/group Date and Time	0 0 0 0 1 2		Time	Study	Study Day/time Oper Date was Taken #	Oper	Clinical signs / Comments	
17.4	89A00050	17 89A00050 M/ 6/3 15-Nay-89 09:4	15-May-89 15-May-89	80	09:42	==	11 / 10:18		salivation, slight hunched posture, slight tremors, slight	
			15-May-89 15-May-89		5.55	12 12	12 / 08:05 12 / 11:22	• •	sailvation, stignt tremors, slight inactive, goderate disoriented, slight	
									vomiting hunched posture, moderate salivation slight	
			15-May-89 10:00	-89	10:00	12	12 / 16:52	٥	inactive, Slight	
			15-May-89		10:08	13	13 / 08:05	٥	function posture, slight	
			15-May-89		10:13	13	13 / 10:32	۰	indector, accordant indective, accordant discrimentation	
									vomiting hunched posture, moderate	
			15-May-89	68	10:18	13	13 / 15:43	٥	salivation, slight inactive, moderate hunched posture, slight	
			15-May-89		10:21	71	14 / 07:21	٥		
			15-May-89		10:26	14	14 / 10:34	•	vomiting vomiting inactive, moderate	
									disorie:ted, slight tremors, severe excessive thirst, moderate	
			15-May-89 15-May-89		10:30 10:32	15 25	14 / 14:55 15 / 08:00	<b>~ ~</b>	##!JV#!JOB. BOG#T#!# flabchive, #!GD#t flobchive, #!GD#t	
20	18 89A00051 M/ 6/4	9/9 /H	15-May-89 15-May-89		14:18 14:24		/ 07:25 / 11:12	<b>~ ~</b>	nunched posture, signi normal/no significant signs salivation, severe	

			Appe	Appendix	) a	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
LETTERMAN ARMY INSTITUTE OF RIDIN OF RES SUPP, PATH SERV GP	H ARMY	INSTITUTE PATH	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	#C#	œ.	a¥ Data Lı	sting	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M	PRINTED: 03.0ct.89 Page: 47
PRESIDIO OI DOG/BEAGLE	OF SA LE	N FRANCI	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	59			Study	Data Listing by Animal Study Start Date: 07-feb-89	SUB-ACUTE/
:	nimet	Sex/grou/	Animal Sex/group Date and Time	Time	Study	•	0per	Clinical signs / Comments	
18 89A(	00051	18 89A00051 M/ 6/4	89A00051 M/ 6/4 15-May-89 14:24	14:24	-	1 / 11:12	•	vomiting hunched posture, moderate	
			15-May-89 15-May-89		1 2		<b>о о</b>	inactive, slight normal/no significant signs	
			15-May-89	15:01	2	/ 11:23	•	salivation, severe vomiting	
								hunched posture, moderate disoriented, moderate inactive, moderate	
			15-May-89	15:05	2	2 / 14:03	٥	tremors, slight disoriented, slight	
						31.00	c		
			15-May-89	15:31	^ <b>~</b>	3 / 11:09	• •	salivation, severe	
			•					vomiting	
								hunched posture, slight inactive moderate	
								disoriented, moderate	
			;		,		(	tremors, severe	
			15-MBY-89	15:58	7	3 / 14:50	>	disoriented, slight inactive, slight	
			15-May-89	15:44	4	/ 07:22	<b>o</b> o	normal/no significant signs	
			40 - ABL - C		•		•	Vositing	
								hunched posture, slight	
								disoriented, slight	
			:		•		(	tremors, slight	
			15-May-89	40:01	3	/0:41 / 4	>	inactive, slight disoriented, slight	
			16-May-89	08:05	io i	5 / 07:27	ه ه	normal/no significant signs	
					•	7:11	•	Vomiting	

			r,	Appendi	ndix	o) a	(cont.):		INDIVIDUAL ANIMAL HISTORIES		
LETTERMAN DO DIV OF RESPECTED OF DOC/BEAGLE	MAN ARMY RES SUP 10 OF SA AGLE	LETTERMAN ARMY INSTITUTE OF RESEARCI DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	E OF RESERV GP	RESEARCH	* e	å æ	DATS L	Stud	linical Signs Without Masses umber: 8806#M ting by Animal Date: 07-feb-89	PAGE.	PAINTED: 03-0ct-89 Page, 46 SUB-ACUTE/
C 800	Animal	Cage Animal Sex/group Date and Time	Date .	end E	Time	Study D	Study Day/time Data was Taken		Clinical signs / Comments		
18 61	19A00051	18 89A00051 M/ 6/4 16-Mey-89 08:0	16-88	68-	08:09	2 / 8	5 / 11:25	· •	hunched posture, slight inactive, moderate disoriented, slight fremore slight		
			16-May-89 16-May-89	4-89 7-89	08:13	v 4	5 / 15:24 6 / 07:57	<b>о</b> ф	hunched posture, slight salivation, severe		
									hunched posture, slight inactive, slight		
									tremors, moderate lack of appetite, moderate		
			16-May-89	4-89	08:21	9	6 / 10:44	•	salivation, severe		
									hunched posture, slight inactive, moderate		
									tremors, moderate		
									vomiting disoriented, stight		
			16-May-89	y-89	08:54	•	6 / 14:50	•	salivation, slight		
									tremors, moderate		
			16-May-89	y-89	08:56	7	7 / 07:22	٥	salivation, slight		
									nunched posture, stight disoriented, slight		
			16-May-89	y-89	08:32	, ,	7 / 10:40	•	salivation, severe		
									nunched posture, stiunt disorie-ted, moderate		
									vomiting		
									inactive, moderate		
			;	•		•	90		tresors, Boderste		
			16-MBY-89	×-89	08:30	. 00	8 / 07:27	<b>~ ~</b>	normal/no signification signification of the signif		
								c	inactive, slight		
			16-May-89	۸-۵۷	C 4: 40	0	6 / 10:33	•	VORITING		
			3	•	60.00	a	30.71	•	increased resp depth, slight		
			10-MBY-01	¥-0¥	0	0	60:4	•			

HISTORIES
ANIMAL
INDIVIDUAL
(cont.):
Appendix D

PRINTED: SO DESERVER RESERVER RESERVER RESERVER RESERVER RESERVER PARTY SERVER PART				Appe	Appendix	D (cont.):		INDIVIDUAL ANIMAL	HISTORIES		
Time Study Day/time Oper Clinical Signs / Comments  109:51 8 / 14:05 9 hunched posture, slight lake of appetite, severe tremors, moderate of tremors, moderate of tremors, sight hunched posture, moderate of tremors, severe tremors, severe tremors, severe tremors, severe innective, slight hunched posture, moderate of sociented, moderate of sociented, moderate of sociented, moderate of sociented, moderate of sociented opsture, slight hunched posture, slight salight inactive, slight disoriented, slight inactive, slight vomining vomini	LETTER	MAN ARMI RES SUF	Y INSTITUT PP, PATH S IN FRANCIS	TE OF RESEAR SERV GP SCO. CA 9412	¥ 6	Raw Data L	ıstin	gs of Clinical Signs Without I Study Number: 88008M ata Listing by Animal		TED: 03	5-0ct-89
Study Day/time Oper Data was Taken # 8 / 14:05 9 9 / 07:20 9 9 / 10:48 9 9 / 10:48 9 9 / 10:48 9 9 / 14:03 9 10 / 10:40 9 10 / 14:25 9 11 / 08:05 9 11 / 11:45 9	DOG/8E.	AGLE					Stud	y Start Date. 07-Feb-89		5	UB-ACUTE/
8 / 14:05 9 9 / 07:20 9 9 / 10:48 9 9 / 14:03 9 10 / 10:40 9 10 / 10:40 9 11 / 08:05 9 11 / 11:45 9	C 8.9 e	Animel	Sex/group /Subgroup	Date and	Time	Study Day/time Data was Taken	Oper				1 1 4 1 1 1
10:01 9 / 10:20 9 10:01 9 / 10:48 9 10:05 9 / 14:03 9 10:22 10 / 10:40 9 10:25 10 / 14:25 9 13:23 11 / 08:05 9 13:39 11 / 11:45 9		9A00051	1/9 /M	16-May-89	09:51	8 / 14:05	<b>.</b>	hunched posture, slight disoriented, slight lack of appetite, severe tremors, moderate		1 1 1	1 1 1 1 1
10:05     9 / 14:03     9       10:18     10 / 07:22     9       10:22     10 / 10:40     9       10:25     10 / 14:25     9       13:23     11 / 08:05     9       13:39     11 / 11:45     9				16-May-89 16-May-89	09:56 10:01	9 / 07:20 9 / 10:48	<b>Ф</b>	tremors, slight tremors, severe			
10:05     9 / 14:03     9       10:18     10 / 07:22     9       10:22     10 / 10:40     9       10:25     10 / 14:25     9       13:23     11 / 08:05     9       13:39     11 / 11:45     9								inactive, stignt hunched posture, moderate vomiting			
10:05     9 / 14:03     9       10:18     10 / 07:22     9       10:22     10 / 10:40     9       10:25     10 / 14:25     9       13:23     11 / 08:05     9       13:39     11 / 11:45     9								increased resp depth, slight disoriented, moderate			
10:18 10 / 07:22 9 10:22 10 / 10:40 9 10:25 10 / 14:25 9 13:23 11 / 08:05 9 13:39 11 / 11:45 9				16-May-89		9 / 14:03	٥	cremors, slight			
10:22 10 / 10:40 9 10:25 10 / 14:25 9 13:23 11 / 08:05 9 13:39 11 / 11:45 9								hunched posture, moderate disoriented, moderate			
10:22 10 / 10:40 9 10:25 10 / 14:25 9 13:23 11 / 08:05 9 13:39 11 / 11:45 9				16-мау-89	10:18	10 / 07:22	٥	_			
10:25 10 / 14:25 9 13:23 11 / 08:05 9 13:39 11 / 11:45 9				16-May-89	10:22	10 / 10:40	٥				
10:25 10 / 14:25 9 13:23 11 / 08:05 9 13:39 11 / 11:45 9								hunched posture, slight salivation, slight			
13:23 11 / 08:05 9 13:39 11 / 11:45 9				16-May-89	10:25	10 / 14:25	•	tremors, moderate inactive, slight			
13:39 11 / 11:45 9				16-May-83	13:23	11 / 08:05	٥	hunched posture, slijht disoriented, slight tremors, slight			
Vomiting increased resp depth, moderate				16-May-89	13:39	11 / 11:45	•	tremors, slight inactive, slight hunched posture slight			
								vomiting increased resp depth, moderal	ŭ		

		~	pper	Appendix	Ω	(cont.):	: ~	INDIVIDUAL ANIMAL HISTORIES	RIES
LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAM FRANCISCO, CA 94129 DOG/BEAGLE	INY INSTITUTE OF RESEARCH LIPP, PATH SERV GP SAM FRANCISCO, CA 94129	E OF RE ERV GP CO, CA	SEARC 94129	<b>x</b> _	œ	aw Dat	A Listi Stu	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M Data Listing by Animal Study Start Date: 07-feb-89	PRINTED: 03-0ct-89 Page: 50 SUB-ACUTE/
Cage Animal Sex/group Date # Number /Subgroup Date	Animal Sex/group Date and Time Number /Subgroup Data was Entered	Date	end Ee En	Time	Study	Study Day/time Data was Taken	Study Day/time Oper Data was Taken R	er f Clinical signs / Comments	
18 89A00051 N/ 6/4	89A00051 N/ 6/4 16-May-89 1	16-May-89 16-May-89	68	13:39	===	11 / 11:45	6 27		
		16-May-89	.89	13:58	12	12 / 08:10	10 9	hunched posture, slight ) hunched posture, slight tremors, moderate	
		16-M4y-89	-89	14:16	12	12 / 11:10	10 9		
								increased resp depth, slight disoriented, slight	
								tregors, slight continued to the continu	
		16-May-89	-89	14:28	12	12 / 15:37	37 9		
		16-May-89	.89	14:36	13	13 / 07:15	15 9		
								salivation, slight excessive thirst, slight	
		3	9	27.71	2	14 / 10.54	0	inactive, slight hunched posture, slight hunched posture, slight	
		0	•	<u>;</u>	2	<u>:</u>			
								increased resp depth, stigni disoriented, slight	
								lack of appetite, moderate tremors, slight	
		16-May-89	-89	14:47	<b>.</b> .	13 / 14:51	51 9	hunched posture, a disoriented, sligh	
								lack of appetite, moderate	
								Selicol by Bodelete Selicol by Bodelete	
		16-May-89	-89	14:50	1,	14 / 09:07	9 20	inactive, stignt hunched posture, slight tremors slight	
								salivation, moderate	

HISTORIES
ANIMAL
INDIVIDUAL
(cont.):
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Appendix

LETTER DIV OF PRESID	MAN ARM RES SU	LETTERMAN ARMY INSTITUTE OF RIDING OF RES SUPP. PATM SERY GP. PRESIDIO OF SAN FRANCISCO, CA.	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129	# 6:	Rat Data	Listin	Ray Data Listings of Clinical Signs Without Masses Study Number: 88008M Data Listing by Animal	PRINTED: 03-0ct-89 Page: 51
DOG/BEAGLE	AGLE	,	, , , , , , , , , , , , , , , , , , , ,			Stud	VCCOY VCBTC DBTG: U/	SUB-ACUTE.
C 20	Anima ( Kumber	Sex/grou /Subgrou	Cage Animal Sex/group Date and Mumber / Subgroup Date was En	=	Study Lay/time Oper Data Mts Taken #	e Oper	Clinical signs / Comments	
• • • • • • • • • • • • • • • • • • •	39A00051	18 89A00051 M/ 6/4	89A00051 M/ 6/4 16-May-89 16-May-89	14:50	14 , 10:16		inactive, slight increased resp depth, moderate tremors, moderate salivation, severe inactive, moderate	
			16-May-89	14:59	14 / 14:30	٥	vomiting tremors, slight inscrive, slight increased resp depth, slight	
			16-May-89	15:07	15 07:37	٠	tremors, slight inactive, slight inactive, slight salivation, moderate	
9 61	19 89A00019	M/ 7/2	05-May-89 05-May-89	14:52	1 / 09:05 1 / 10:06	••	nunched posture, stignt normal/no significant signs vomiting tremors, stight	
			05-May-89 05-May-89 05-May-89	15:04 15:10 15:18	1 / 15:04 2 / 09:07 2 / 10:35	000	tremors, slight normal/no significant signs disoriented, slight	
			08-May-89 08-May-89 08-Mey-89		2 / 14:18 3 / 08:50 3 / 10:22	000		
			08-May-89 08-May-85 08-May-89	08:40 08:42 08:54	3 / 14:32 4 / 08:35 4 / 11:50		normal/no significant signs soft stool, slight vomiting inactive, slight	
			08-May-85 08-May-85 08-May-89	09:00 09:03 09:09	4 / 14:00 5 / 08:24 5 / 11:13	<b>~~~</b>	disorrenced, slight soft stool, slight increased resp rate, moderate disoriented, slight normal/no significant signs inactive, slight	

			*	Appendi	ndix	) a	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
LETTERMAN / DIV OF RES PRESIDIO OI DOG/BEAGLE	IAN ARNY Res Supi O OF SAI	LETTERMAN ARMY INSTITUTE OF RESEAACH DIV OF RES SUPP, PATM SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	E OF REEL CP.	SEA40	r	a ox	W Date L	sting S Da	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008M Data Listing by Animal Study Start Date: 07-Feb-89	PRINTED: 03-0ct-89 Page: 52 SUB-ACUTE/
C	Animal	Cage Animal Sex/group Date and Time # Number /Subgroup Date was Entered	Date and Data was Er	and ins En	Time	Study	Study Day/time Oper Data was Taken A		Clinical signs / Comments	
19 89	19 89A00019 M/ 7/2	19 89A00019 M/ 7/2 08-May-89 09:0	08-May-89 08-May-89	69	09:09	88	5 / 11:13 5 / 14:35	, o o	disoriented, slight disoriented, slight tremor, slight	
			08-May-89 08-May-89		09:20 09:36	00	6 / 09:00	••	normal/no significant signs vomiting	
									inactive, moderate inactive, moderate biscriented, slight biscriented, slight	
			08-May-89		09:45	0 ~	7 14:28	٥٥	disoriented, slight	
			03-Mey-82		09:55		/ 10:22	• •		
									tremors, slight	
			08-May-89		10:00	,	14:45		disoriented, slight	
			08-May-89		10:05	σο σ	/ 09:34	۰ ۰	soft stool, slight	
					-	3			Glingscou, primare Glisoptiented, associate	
			08-May-39		10:17	æ	8 / 14:31	٠	treesors stilling to the still	
			08-May-89		10:44	٥	9 / 07:33	٥	TOUCH	
			08-May-89		10:51	٥	67:60 / 6	٠	draction of the property of th	
									disoriented moderate hunched posture, moderate circling, moderate	
			08-May-89		10:58	o	9 / 14:18	•	tremors, slight disoriented, slight	
			08-May-89		14:02	10	10 / 07:31	٠	disoriented, slight circling, slight	

HISTORIES
ANIMAL
INDIVIDUAL
(cont.):
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LETTERMAN ARMY INSTITUTE OF RESEARCH	TILLIAN A		X.	Raw Data	Listing	Second Triodatal Second Medical C 40 S	
DIV OF RES SUPP, PATH SERV GP	JPP, PATH	SERV GP			<i>s</i> (		Value Comment of the
PRESIDIO OF S DOG/BEAGLE	SAN FRANCE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/Beagle	<b>^</b>		Study	Date Listing by Animal Study Start Date: 07-feb-89	SUB-A. :TE/
Cage Animal	imal Sex/group Date	Cage Animal Sex/group Date and Time	Time	Study Day/time Oper Data was Taken #	te Oper	Clinical signs / Comments	
19 89A00019 M/ 7/2	9 M/ 7/2	89A00019 M/ 7/2 08-May-89 14:07	14:07	10 / 10:46	•	disoriented, slight	
i	•					circling, moderate	
		08-May-89	14:11	10 / 14:29	<u>о</u> .		
		3	71.71	33.00.7		hunched posture, slight	
		90 - VBM - 80		11 / 12:25	• •	CITCLINE, Boderate	
						disoriented, slight	
		08-May-89	14:30	11 / 14:00	6	circling, moderate	
		•				disoriented, slight	
		08 - May - 89	14:33	`	o.	circling, slight	
		08-May-89	14:36	12 / 11:48		circling, slight	
						disoriented, slight	
		08-May-89	14:39	12 / 14:00	۵.	circling, slight	
						disoriented, slight	
						lack of appetite, slight	
		08-May-89	14:41	13 / 08:15	٥	normal/no significant signs	
		08-May-89	14:45	13 / 12:20		disoriented, slight	
						circling, slight	
		08-Mey-89	14:47	13 / 14:10	•	disoriented, slight	
						circling, slight	
		08-May-89	14:50	`	•	normal/no significant signs	
		08-May-89	14:56	14 / 09:44		soft stool, slight	
						disoriented, moderate	
						tremors, slight	
		08-May-89	14:59	14 / 14:40	٥.	disoriented, moderate	
						tremors, slight	
		08-May-89	15:02	15 / 07:09		normal/no significant signs	
20 89AC0043	S M/ 7/3	11-May-89	14:35	1 / 09:30		normal/no significant signs	
		11-May-89	14:40			normal/no significant signs	
		11-May-89	14:44	1 / 14:46			
		11-May-89	14:48			normal/no significant signs	
		11-May-89	14:55	`		normal/no significant signs	
		11-May-89	15:05	2 / 14:13		normal/no significant signs	
		11-May-89	15:09	`		soft stool, slight	
		11-May-89	15:14	3 / 11:05	•	disoriented, slight	
		11-May-89	15:18	`			
		11-Mey-89	15:24	4 / 09:10		normal/no significant signs	

			App	Appendix	۵	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
LETTE!	RMAN ARM F RES SU	LETTERMAN ARMY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP	E OF RESEARCH	RCH	æ	w Data L	isting	Raw Data Listings of Clinical Signs Without Masses Study Musber: 880087	PRINTED: 03-0ct-89 Page: 54
DOG/BEAGLE	EAGLE	AM PKANCIS	PRESIDIO OF SAN FRANCISCO, CA 44124 Dog/Beagle				Study	CALDY Start Date: 07-Feb-89	SUB-ACUTE/
0.0	Animel	Sex/group /Subgroup	Cage Animal Sex/group Date and Time # Number /Subgroup Date was Entered	Time	Study Data M	Study Day/time Oper Data was Taken w	Oper #	Clinical signs	
20	89A00043	20 89A00043 M/ 7/3	11-May-89 15:3	•	7	/ 10:52	•	disoriented, Boderate	
			11-May-89		4	/ 14:30	٥.	normal/no significant signs	
			12-May-89		2	/ 07:16	•		
			12-May-89		s	/ 11:12	0		
			12-Hay-89	08:45	~	14:04	•	soft stool, slight	
			12-May-89		•	7 07:22	•	normal/no significant signs	
			12-May-89		9	/ 11:12	٠		
			12-May-89		•	/ 15:32	c	normal/no significant signs	
			12-May-89		1	/ 07:53	<u>~</u>	panting, moderate	
			12-May-89		^	/ 10:30	•	disoriented, slight	
			12-May-89		7	/ 14:52	۰	normal/no significant signs	
			15-May-89		60	/ 07:17	0		
			15-May-89		•0	/ 10:23	٥		
			15-Nay-89		80	14:55	Φ.	disoriented, slight	
			15-May-89		٥	/ 07:23	<b>O</b>	soft stool, moderate	
			•					panting, moderate	
			15-MBY-89	08:41	•	/ 10:17	•	panting, slight	
			,					hyperactive, moderate	
								disoriented, slight	
			15-May-89	08:54	٥	/ 14:00	•	disoriented, slight	
			15-Mey-89		2	/ 07:20	٥	soft stool, moderate	
								panting, moderate	
			15-May-89	09:21	10	/ 10:30	•	disoriented, slight	
			15-May-89		10	/ 14:09	•	panting, moderate	
								hyperactive, moderate	
			15-May-89	09:35	=	/ 07:34	•	soft stool, moderate	
								panting, moderate	
								hyperactive, moderate	
			15-May-89	09:45	Ξ	11 / 10:20	•	hyperactive, moderate	
								disoriented, slight	
			15-May-89	27:60	=	11 / 14:31	•	hyperactive, slight	
			15-May-89		12	00:80 /	•	soft stool, moderate	
								panting, slight	
			15-May-89		12	/ 11:26	•	disoriented, moderate	
			15-May-89		12	/ 16:52	•	normal/no significant signs	
			15-May-89	10:08	13	08:05	٥.	normal/no significant signs	

HISTCRIES
ANIMAL
INDIVIDUAL
(cont.)
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Appendix

Land Admin   Market				App	Appendix	D (co	(cont.):		INDIVIDUAL ANIMAL HISTCRIES		
Time   Study Start Dage: 07-Feb-89	LETTE: D1V O	RMAN ARM	PP, PATH	TE OF RESEAUSEN GP	RCH	ж 2	Sate Li	sting S	s of Clinical Signs Without Masses tudy Number: 88008M	PRINTED: Page:	03-0ct-89 55
######################################	9/900	EAGLE					1	Study	Start Date: 07-Feb-89		SUB-ACUTE/
89A00065 M/ 7/3 15-May-89 10:13 13 / 10:37 9 disoriented, moderate hyperactive, moderate hyperactive, moderate hyperactive, moderate hyperactive, moderate hyperactive, moderate soft stool, stool			Sex/grou	p Date was	Time	Study Day	y/time Taken	1	Clinical signs / Comments		
15-May-89   10:19   13   15:48   hyperactive, moderate   15-May-89   10:22   14   77:27   hyperactive, slight   15-May-89   10:22   14   77:27   hyperactive, slight   15-May-89   10:27   14   10:37   9   disoriented, slight   15-May-89   10:30   14   14:59   9   normal/no significant   15-May-89   14:25   1   11:13   9   normal/no significant   15-May-89   14:25   1   11:24   9   normal/no significant   15-May-89   15:01   2   11:24   9   normal/no significant   15-May-89   15:01   2   11:24   9   normal/no significant   15-May-89   15:01   2   11:24   9   normal/no significant   15-May-89   15:05   4   11:05   9   normal/no significant   15-May-89   15:05   4   11:05   9   normal/no significant   15-May-89   15:05   4   11:05   9   normal/no significant   16-May-89   08:13   5   15:25   9   normal/no significant   16-May-89   08:24   6   10:45   9   normal/no significant   16-May-89   08:37   7   7   7:22   9   normal/no significant   16-May-89   08:37   7   7   7:22   9   normal/no significant   16-May-89   08:37   7   7   7:22   9   normal/no significant   16-May-89   08:37   7   7   7:27   9   soft stool, moderate   16-May-89   08:37   7   7   7:20   9   normal/no significant   16-May-89   08:37   8   7   7   7   7   7   7   7   7	20	39A00043		15-May-89	10:1	13 /	10:37		disoriented, moderate panting, moderate	1	•
15-May-89 10:27 14 / 10:37 9 disoriented, slight 15-May-89 10:32 14 / 10:37 9 disoriented, slight 15-May-89 10:32 15 / 08:00 9 normal/no significant 15-May-89 10:32 15 / 08:00 9 normal/no significant 15-May-89 14:25 1 / 11:13 9 normal/no significant 15-May-89 14:25 1 / 11:13 9 normal/no significant 15-May-89 14:25 1 / 11:13 9 normal/no significant 15-May-89 14:25 2 / 07:20 9 soft stool, slight 15-May-89 15:01 2 / 11:24 9 normal/no significant 15-May-89 15:01 2 / 11:24 9 normal/no significant 15-May-89 15:01 2 / 11:24 9 normal/no significant 15-May-89 15:33 3 / 11:10 9 normal/no significant 15-May-89 15:33 3 / 11:10 9 normal/no significant 15-May-89 15:55 4 / 14:20 9 normal/no significant 16-May-89 08:13 5 / 11:37 9 normal/no significant 16-May-89 08:13 5 / 15:25 9 normal/no significant 16-May-89 08:13 5 / 15:25 9 normal/no significant 16-May-89 08:27 7 / 07:28 9 port stool, moderate 16-May-89 08:37 7 / 15:01 9 soft stool, moderate 16-May-89 08:37 7 / 15:01 9 soft stool, moderate 16-May-89 09:37 7 / 15:01 9 soft stool, moderate 16-May-89 09:37 7 / 15:01 9 soft stool, moderate 16-May-89 09:37 7 / 15:01 9 soft stool, significant 16-May-89 09:37 7 / 15:01 9 soft stool, moderate 16-May-89 09:37 7 / 15:01 9 soft stool, moderate 16-May-89 09:37 7 / 15:01 9 soft stool, significant 16-May-89 09:37 7 / 15:01 9 soft stool, significant 16-May-89 09:37 7 / 15:01 9 soft stool, significant 16-May-89 09:37 7 / 15:01 9 soft stool, significant 16-May-89 09:37 7 / 15:01 9 soft stool, significant 16-May-89 09:37 7 / 15:01 9 soft stool, significant 16-May-89 09:37 8 / 10:37 9 normal/no significant 16-May-89 09:45 8 / 10:37 9 normal/no significant 16-May-89 09:45 8 / 10:37 9 normal/no significant 16-May-89 09:45 8 / 10:37 9 soft stool, significant 16-May-89 09:45 9 / 10:20 9 soft stool, significant 16-May-89 09:45 9 / 10:20 9 soft stool, significant 16-May-89 09:45 9 / 10:20 9 soft stool, significant 16-May-89 09:45 9 / 10:20 9 soft stool, significant 16-May-89 09:45 9 / 10:20 9 soft stool significant 16-May-89 09:45 9 / 10:20 9 sof				15-MBY-89 15-MBY-89			15:48		hyperactive, moderate hyperactive, slight hyperactive, slight panting, slight		
15-May-89 10:30 14 / 14:59 9 normal/no significant 15-May-89 10:32 15 / 08:00 9 normal/no significant 15-May-89 14:19 1 / 11:13 9 normal/no significant 15-May-89 14:28 1 / 14:18 9 normal/no significant 15-May-89 14:28 1 / 14:18 9 normal/no significant 15-May-89 15:01 2 / 11:24 9 normal/no significant 15-May-89 15:01 2 / 11:24 9 normal/no significant 15-May-89 15:01 2 / 11:24 9 normal/no significant 15-May-89 15:03 3 / 09:15 9 normal/no significant 15-May-89 15:33 3 / 10:13 9 normal/no significant 15-May-89 15:33 3 / 14:30 9 normal/no significant 15-May-89 15:35 4 / 14:30 9 normal/no significant 15-May-89 15:55 4 / 14:08 9 normal/no significant 16-May-89 08:05 6 / 11:37 9 normal/no significant 16-May-89 08:05 6 / 11:37 9 normal/no significant 16-May-89 08:13 5 / 11:37 9 normal/no significant 16-May-89 08:13 6 / 10:46 9 normal/no significant 16-May-89 08:27 7 / 07:22 9 soft stool, moderate 16-May-89 08:37 7 / 10:40 9 normal/no significant 16-May-89 08:37 7 / 10:40 9 normal/no significant 16-May-89 08:37 7 / 10:40 9 normal/no significant 16-May-89 08:37 7 / 10:27 9 soft stool, moderate 16-May-89 08:37 7 / 10:27 9 soft stool, moderate 16-May-89 09:37 8 / 10:37 9 normal/no significant 16-May-89 09:37 8 / 10:30 9 normal/no significant 16-May-89 09:37 8 / 10:30 9 normal/no significant 16-May-89 09:31 8 / 10:30 9 normal/no significa				15-May-89	10:2	`	10:37				
89A00054 M, 7/4 15-May-89 14:19 1 / 07:25 9 normal/no significant 15-May-89 14:25 1 / 11:13 y normal/no significant 15-May-89 14:25 2 / 07:20 9 normal/no significant 15-May-89 15:01 2 / 11:24 9 normal/no significant 15-May-89 15:01 2 / 11:24 9 normal/no significant 15-May-89 15:13 3 / 11:10 9 normal/no significant 15-May-89 15:31 3 / 11:10 9 normal/no significant 15-May-89 15:55 4 / 14:03 9 normal/no significant 15-May-89 15:55 4 / 14:32 9 normal/no significant 15-May-89 15:55 4 / 14:08 9 normal/no significant 16-May-89 08:13 5 / 11:37 9 normal/no significant 16-May-89 08:13 5 / 11:37 9 normal/no significant 16-May-89 08:13 5 / 15:25 9 normal/no significant 16-May-89 08:13 6 / 07:28 9 normal/no significant 16-May-89 08:13 6 / 10:46 9 normal/no significant 16-May-89 08:37 7 / 10:40 9 normal/no significant 16-May-89 09:31 8 / 10:37 9 inactive, stight 16-May-89 09:55 8 / 10:37 9 normal/no significant 16-May-89 09:55 8 / 10:37 9 normal/no significant 16-May-89 09:55 9 normal/nor				15-May-89 15-May-89	<u></u>		14:59 08:00				
14:28		89A00054	Ì	15-Hay-89	14:	<b>\</b>	07:25		significant significant		
15:01 2 / 11:24 9 normal/no significant 15:05 2 / 14:03 9 normal/no significant 15:33 3 / 09:15 9 normal/no significant 15:38 3 / 11:10 9 normal/no significant 15:38 3 / 11:10 9 normal/no significant 15:45 4 / 14:30 9 normal/no significant 15:50 4 / 14:08 9 normal/no significant 08:05 5 / 07:28 9 soft stool, slight 08:10 5 / 11:37 9 normal/no significant 08:13 5 / 15:25 9 normal/no significant 08:24 6 / 14:50 9 normal/no significant 08:27 6 / 14:50 9 normal/no significant 08:27 7 / 07:22 9 soft stool, moderate 08:33 7 / 10:40 9 normal/no significant 08:33 7 / 10:40 9 normal/no significant 08:33 7 / 10:40 9 normal/no significant 09:31 8 / 07:20 9 soft stool, moderate 09:31 8 / 14:05 9 normal/no significant 09:56 9 / 07:20 9 soft stool, slight				15-May-89	7 7		14:18		significant slight		
15:13 16:15 17:15				15-Hay-89	15:0	. ~ `	11:24		significant		
15:31 3 / 11:10 9 normal/no significan. 15:38 3 / 14:30 9 normal/no significant. 15:45 4 / 11:32 9 rormal/no significant. 15:50 4 / 14:08 9 normal/no significant. 08:05 5 / 07:28 9 soft stool, slight. 08:10 5 / 11:37 9 normal/no significant. 08:13 5 / 15:25 9 normal/no significant. 08:17 6 / 07:58 9 panting, slight. 08:21 6 / 15:25 9 normal/no significant. 08:27 7 / 07:22 9 soft stool, moderate. 08:33 7 / 10:40 9 normal/no significant. 08:33 7 / 10:40 9 normal/no significant. 08:33 7 / 10:40 9 normal/no significant. 08:33 8 / 10:27 9 soft stool, moderate. 09:31 8 / 10:37 9 inactive, slight. 09:51 8 / 14:05 9 normal/no significant. 09:55 9 soft stool, moderate.				15-May-89	7.5		39:15		significant		
15:45 4 / 107:23 9 normal/no significant 15:55 4 / 14:08 9 normal/no significant 08:05 5 / 07:28 9 soft stool, slight 08:10 5 / 11:37 9 normal/no significant 08:17 6 / 07:58 9 panting, slight 08:24 6 / 14:50 9 normal/no significant 08:27 7 / 07:22 9 soft stool, moderate 08:37 7 / 10:40 9 soft stool, moderate 09:31 8 / 07:27 9 soft stool, moderate 09:31 8 / 14:35 9 normal/no significant 08:37 7 / 15:01 9 soft stool, moderate 09:34 8 / 14:35 9 normal/no significant 09:35 9 / 07:20 9 soft stool, moderate				15-May-89	15:2	` `	11:10		significan.		
15:50				15-Hay-89	15:4	. `	07:23		significant		
08:05 5 / 07:28 9 soft stool, slight 08:10 5 / 11:37 9 normal/no significant 08:13 5 / 15:25 9 normal/no significant 08:17 6 / 07:58 9 panting, slight 08:21 6 / 10:46 9 normal/no significant 08:24 6 / 14:50 9 normal/no significant 08:27 7 / 07:22 9 soft stool, moderate 08:33 7 / 10:40 9 normal/no significant 08:37 7 / 15:01 9 excessive thirst, slig 09:31 8 / 07:27 9 soft stool, moderate 09:31 8 / 10:37 9 inactive, slight 09:51 8 / 10:37 9 inactive, slight				15 - HBY - 89	5 5		11:32 14:08		significant		
08:10 5 / 11:37 9 normal/no significant 08:13 6 / 15:25 9 normal/no significant 08:21 6 / 10:46 9 normal/no significant 08:24 6 / 14:50 9 normal/no significant 08:27 7 / 07:22 9 soft stool, moderate 08:37 7 / 10:40 9 normal/no significant 08:37 7 / 15:01 9 excessive thirst, slig 09:31 8 / 07:27 9 soft stool, moderate 09:45 8 / 14:45 9 normal/no significant 09:56 9 / 07:20 9 soft stool, slight				16-May-89	0.83	<u> </u>	07:28				
08:17 6 / 07:58 9 panting, slight 08:24 6 / 10:46 9 normal/no significant 08:24 6 / 14:50 9 normal/no significant 08:27 7 / 07:22 9 soft stool, moderate 08:33 7 / 10:40 9 normal/no significant 08:37 7 / 15:01 9 excessive thirst, slight 09:31 8 / 07:27 9 soft stool, moderate 09:45 8 / 14:45 9 normal/no significant 09:56 9 / 07:20 9 soft stool, slight				10 - MBY - 0V	0.8:1	` `	15:25				
08:21 6 / 10:46 9 normal/no significant 08:24 6 / 14:50 9 normal/no significant 08:27 7 / 07:22 9 soft stool, moderate 08:33 7 / 10:40 9 normal/no significant 08:37 7 / 15:01 9 excessive thirst, slig 09:31 8 / 07:27 9 soft stool, moderate 09:45 8 / 10:37 9 inactive, slight 09:56 9 / 07:20 9 soft stool, slight				16-May-89	08:1	. \	37:58				
08:24				16-May-89	08:2	`	10:46				
08:33 7 7 10:40 9 normal/no significant 08:37 7 7 15:01 9 excessive thirst, slight 09:51 8 7 10:37 9 inactive, slight 09:51 8 7 14:05 9 normal/no significant 09:56 9 7 07:20 9 soft stool, slight				08-X4X-01	2:80	` `	14:50	<b>D</b>	S 1 gn		
08:37 7 / 15:01 9 excessive thirst, slig 09:31 8 / 07:27 9 soft stool, moderate 09:45 8 / 10:37 9 inactive, slight 09:51 8 / 14:05 9 normal/no significant 09:56 9 / 07:20 9 soft stool, slight				16-May-89	08:3		10:40				
09:31 8 / 07:27 9 soft stool, moderate 09:45 8 / 10:37 9 inactive, slight 09:51 8 / 14:05 9 normal/no significant 09:56 9 / 07:20 9 soft stool, slight				16-May-89	08:3	_	15:01		excessive thirst, slight		
09:45 8 / 10:37 9 inactive, slight 09:51 8 / 14:u5 9 normal/no significant 09:56 9 / 07:20 9 soft stool, slight				16-May-89	09:3	>	72:20		soft stool, moderate		
09:56 9 / 07:20 9 soft stool, slight				16-May-89	7:60	` `	10:37				
				16-MBY-89	09:5	` `	14:05				

HISTORIES
ANIMAL
INDIVIDUAL
(cont.):
Appendix D

			1	445000000000000000000000000000000000000	)	. /			
LETTERMAN	ARMY	INSTITU	LETTERMAN ARMY INSTITUTE OF RESEARCH	<b>LRCH</b>	S.	w Data Lis	tings	Raw Data Listings of Clinical Signs Without Masses	PRINTED: 03-0ct-89
DIV OF RES SUPP, PATH SERV GP	SUP	P, PATH	SERV GP				St	udy Kusber: 88008M	Page: 56
PRESIDIO C	JF SA	N FRANCE	PRESIDIO OF SAN FRANCISCO, CA 94129	129			Det	Data Listing by Animal	
DOG/BEAGLE						S	Study	Study Start Date: 07-Feb-89	SUB-ACUTE/
Cage Ani	7	Sex/groul	Cage Animal Sex/group Date and	nd Time	Study	Study Day/time Oper	•		
57 E	Ded.	/Subgrou	Mcsber /Subgroup Date see Entered	Entered	•	Data was Taken	<b>3</b> ∶	Clinical signs / Comments	
8	1054	N/ 7/4	16-May-89	10:01	٥	/ 10:49	9	inactive, slight	
			16-May-89			70:71		normal/no significant signs	
			16-May-89	9 10:18	10 ,	/ 07:24		soft stool, slight	
			16-May-89	9 10:22	_	/ 10:41	٥.	normal/no significant signs	
			16-May-89			/ 14:26		normal/no significant signs	
			16-May-89		=			soft stool, moderate	
			16-May-89		=	/ 11:46		inactive, slight	
			16-May-89		-			inactive, slight	
			16-May-89		12			panting, moderate	
			16-May-89			/ 11:17		bleeding from IV site, slight	
			16-May-89			/ 15:38		panting, slight	
								hyperactive, slight	
			16-May-89	14:36	13 ,	/ 07:18	0	panting, slight	
							•	excessive thirst, slight	
								soft stool, slight	
			16-May-89	9 14:43	13	/ 10:55	•	inactive, slight	
								bleeding from IV site, slight	
			16-May-89		13 ,	/ 14:52	<u>ح</u>	hyperactive, slight	
			16-May-89		14	80:60 /		panting, moderate	
			16-May-89	14:54	14 ,	/ 10:19		panting, moderate	
							£	hyperactive, slight	
			,						
			16-May-89	14:59	7 7 1	74:30	ح ص	normal/no significant signs	
			16-May-89			07:39		panting, moderate	
							E	hyperactive, moderate	
			:		•				
22 89A00001	2001	M/ 8/1	03-Ney-89		- 1	87:60 /		\$1901ficant	
			03-Mey-89		<b>-</b> ·				
			03-Mey-89		_	/ 14:34			
			03-May-89	15:39	~	/ 09:28			
			03-May-89		7				
			03-May-89		~			4	
			04-May-89		<b>m</b> (		<u>د</u> .	normal/no significant signs	
			04-May-89			/ 10:10			
			04-May-89	08:13	M	7 14:15			
			04 - May - 59		•	7 08:45		nofmet/no significant signs	

			Ā	ppe	Appendix	D (cont.):	: INDIVIDUAL ANIMAL HISTORIES	
LETTERMAN DIV OF RE	SSUP	LETTERMAN ARMY INSTITUTE OF R.	E OF RES	RESEARCH P		Raw Data Lis	Without Masses	PRINTED: 03-0ct-89 Page: 57
PRESIDIO OF DOG/BEAGLE	אַ אַ שַּׁי	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	נס, כא	715	<b>&gt;</b>	S		SUB-ACUTE/
Cage An	ے ۔	Sex/group Date /Subgroup Date	Date	and Kee Er	Time	/time 0	Clinical signs / Co	
22 8940		M/ 8/1	08-748-30		08:31	7 / 09:56		
			04-May-69	69	08:37	4 / 14:30		
			04-Mey-89	-89	08:41	5 / 08:30	normal/no significant	
			04-May-89	-89	29:80	5 / 11:29	disoriented, moderate	
			04-Mey-89	-89	08:52	\	9 normal/no significant signs	
			04-Mey-89	68-	20:60	`	soft stool, severe	
			04 - May - 89	68	60:60	\		
			04-May-89	69	09:17	\		
			04-Mey-89	-80	09:55	00:00 / 2		
			04-May-89	-89	09:30	`	disoriented, slight	
			04-May-89	-89	09:36	-		
			04-May-89	-89	09:41	\	soft stool, moderate	
			04-Mey-89	-89	09:52	`	normal/no significant	
			04-MBY-89	-89	10:00	8 / 14:45	normal/no	
			04-May-89	-89	10:10	_	normal/no	
			04-May-89	-89	10:19	9 / 10:39	normal/no significant si	
			04-May-89	-89	10:24	`		
			04-MBY-89	-89	10:37	`	soft stool, slight	
			04-MBY-89	-89	10:47	`	normal/no significant si	
			04-May-89	-86	10:52	`		
			04-May-89	68-	14:10	<u> </u>	soft stool,	
			04-May-89	-89	14:34	`	soft stool, slight	
			04-May-89	69-	14:43	`	normal/no signific	
			04-May-89	60	90:41		Lack of appetite, modera	
			04-May-89	<b>2</b> 0	15:12	12 / 11:44	normal/no significant	
			AO-ABH-YO		15.20			
			48-48H-40	0	15.24		Dormal / Do a sport frant	
			08-74-70	2	15:27		Dormal/no elenificant el	
			04-May-89	9	15:30	. ~	pormet/no significant si	
			04-May-89	-80	15:43	. ~	significant si	
			04-Mey-89	-89	15:46	14 / 14:01	normal/no significant si	
			04-May-89	-89	15:50	`	normal/no significant	
23 89A0	89A00013	M/ 8/2	05-May-89	-89	14:52	1 / 09:07	9 normal/no significant signs	
			•	-80	14:57	1 / 10:08	normal/no significant	
			05-May-89	-89	15:05	1 / 15:05	9 normal/no significant signs	

HISTORIES
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ETTER	TAN ARK	TORESTAN ARMY INSTITUTE OF RESEARCH	F OF RESE.	#DOM	3 6	u Data Li	stinas	Data Listings of Clinical Signs Without Masses	PRINTED: DI-DCT-AG
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PRESID	10 OF S.	PRESIDIO OF SAM FRANCISCO, CA		94129			0	Date Listing by Animel	
DOG/BEAGLE	ופופ			ì			S	tudy Start Date: 07-Feb-89	SUB-ACUTE/
0.7	Animel	Sex/group /Subgroup		d Time	Study Data M	Study Day/time (Data was Taken	Oper	Clinical signs / Comments	
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			05-May-89			/ 10:38			
			08-Nev-80		~	/ 14:19			
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			08-May-89	9 08:36	, p-7	/ 10:25	. 0.		
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			US-MBY-B		•	/ 08:35		sort stoot, moderate	
			08-Nay-8		4	/ 11:54		tremors, moderate	
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			0. ABH. 00		n 1	100.04			
			08-May-89			יו:וו /		tremors, slight	
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			08-May-89	9 09:17	5	/ 14:35		normal/no significant signs	
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			00 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		•				
			0.484.00		0				
								disoriented, moderate	
			08-May-89			/ 14:29		tremors, slight	
			08-May-89	87:60 6	7	00:60 /	•	normal/no significant signs	
			08-MBY-8			/ 10:25		tremors, moderate	
			•				J	disoriented, slight	
			08-May-89	10:00	~	14:45		normal/no significant signs	
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0 76	RES SU O OF S. GLE	LETTERMAN ARMY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAM FRANCISCO, CA DOG/BEAGLE	SER.	46	RESEARCH IP IA 94129	r	ž	5 5 7	Listir 0 Stud	aw Data Listings of Clinical Signs Without Masses Study Number: 88008M Data Listing by Animal Study Start Date: 07-Feb-89	PRINTED: 03-oct-89 Page: 59 Sus-Acute/
	Animel	: s \	9 9	Date Date	and res En	Date and Time	Study	Study Day/time Data was Taken	e Oper	Clinical signs	
			•	08-Mey-89	08-May-89 14:36	14:36	12	/ 11:55	:	normal/no significant signs	
			3	08-May-89	-89	14:39	12	/ 14:00		lack of appetite, moderate	
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			<b>3</b> 3	08-Mey-89		14:45	<u>r</u> :	/ 12:25		Significant	
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54 89	89A00053	M/ 8/4		15-May-89	-89	14:20	-	/ 07:25		normal/no significant signs	
			-	15-May-89	-89	14:25	-	/ 11:17		normal/no significant signs	
			1.5	15-May-89	-89	14:29	-	/ 14:18		normal/no significant signs	
			-	15-May-89	-89	14:56	~	/ 07:20	•	soft stool, slight	
			=	5-May-89	-89	15:01	~	/ 11:28			
			-	5-MBY-89	-89	15:06	~	/ 14:03	<b>о</b>	significant si	
			<u>.</u>	15-May-89	-89	15:13	m i	/ 09:15		significant si	
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			ĭ	6-May-89		08:21	•	/ 10:48			
			~	16-May-89		08:24	•	/ 14:50		normal/no significant signs	
			ř	16-May-89		08:27	~	/ 07:22		, moderate	
			ž	16-May-89		08:33	~	/ 10:45			
			ř	6-HBY-89		08:37	~	/ 15:02		significant	
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			2	16-May-89		09:57	•	/ 07:20			
			=	16-May-89		••	•	/ 10:52		significant	
			ř	16-Mey-89	<b>5</b>	10:06	•	(0:31 /	-	normal/no significant signs	

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Study Start Date: 07-feb-89		F RES SUP	PATE S	SERV GP	5 .	; ; ;	c	10001	PRIMIEU: U3-OCT-6V Page: 60
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24 89400055 M/ 8/4 16-May-89 10:18 10 / 07:24 9 soft stool, moderate 16-May-89 10:22 10 / 10:59 9 normal/no significant signs 16-May-89 10:23 11 / 08:05 9 normal/no significant signs 16-May-89 13:23 11 / 08:05 9 normal/no significant signs 16-May-89 13:55 11 / 11:54 9 incrtive, significant signs 16-May-89 13:55 11 / 11:54 9 incrtive, significant signs 16-May-89 13:55 11 / 11:54 9 incrtive, significant signs 16-May-89 13:55 11 / 11:54 9 incrtive, significant signs 16-May-89 14:37 12 / 15:38 9 parting, moderate 16-May-89 14:37 12 / 15:38 9 parting, sight 16-May-89 14:37 12 / 15:38 9 parting, sight 16-May-89 14:37 13 / 10:56 9 normal/no significant signs 16-May-89 14:37 13 / 10:56 9 normal/no significant signs 16-May-89 14:37 14 / 10:33 9 incrtive, sight 16-May-89 14:37 14 / 10:33 9 incrtive, sight 16-May-89 15:07 15 / 10:33 9 normal/no significant signs 03-May-89 15:07 15 / 10:33 9 normal/no significant signs 03-May-89 15:07 15 / 10:33 9 normal/no significant signs 03-May-89 15:07 15 / 10:33 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no significant signs 04-May-89 08:07 15 / 10:30 9 normal/no sig		•	Sex/group /Subgroup	Date and	Time	Study Day/til	•		
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08:01 3 / 08:54 9 normal/no significant 08:07 3 / 10:10 9 tremors, moderate 08:13 3 / 14:15 9 tremors, moderate 08:20 4 / 08:45 9 soft stool, moderate 08:32 4 / 09:57 9 tremors, moderate disoriented, slight 08:37 4 / 14:30 9 tremors, moderate 08:42 5 / 08:30 9 inactive, slight soft stool, severe 08:48 5 / 11:31 9 inactive, slight				03-May-89	15:53	`			
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08:20				04-May-89	08:13	`			
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08:37 4 / 14:30 9 08:42 5 / 08:30 9 08:48 5 / 11:31 9				04-May-89	08:32	5:60 / 7		tremors, moderate	
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08:42 5 / 08:30 9				04-May-89		•		tremors, moderate	
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LETTER	IMAN ARM	LETTERMAN ARMY INSTITUTE OF RESEARCH	E OF RES	EARCH		. &	Data Li	isting	Raw Data Listings of Clinical Signs Without Masses	
DIV OF RES PRESIDIO O DOG/BEAGLE	F RES SU- DIO OF SI- FAGLE	DIV OF RES SUPP, PATH SERV GP Presidio of San Francisco, ca 94129 Dog/beagle	ERV 6P CO, CA 9	62176				S Da Study	Study Number: 88008M Data Listing by Animal Study Start Date: 07-Feb-89	Page: 61 SUB-ACUTE/
C	!	Animal Sex/group Date and Time Number /Subgroup Date was Entered	Date Date	: 5	Time	Study C	Study Day/time Oper Date was Taken #	Oper.	Clinical signs / Comments	
25 8	25 89A00005	A00005 M/ 9/1 04-May-89 08:54	04-MBY-89 04-MBY-89	000	08:54 08:54	8	11:31	, 00	disoriented, goderate	
			04-May-89 04-May-89		09:03 09:11	9 9	/ 08:22 / 10:54	• •	Soft stool, acterate inactive, stight treacrise, severe	
			04-MBY-89		09:18	91	14:30	٥٥	Cladinenied, Modelaie Tremora, alight Soft Minol, Boderate	
			04-May-89		09:31			0.0	normal/no significant signs	
			04-May-89		09:42		08:43	· o- o	TOTAL OF THE CONTRACT OF THE C	
					55.	3	5.0	•	inactive, moderate disoriented, moderate	
			04-May-80		10:00	800	14:45	<b>~</b> •	SOIT STOOL, SIIGHT Gliscriented, moderate	
			04-May-89		10:20	•	10:46	• •	tremors, slight inactive, slight	
			04-May-89		10:25	6	14:24	<b>o</b> - (		
			04-May-89 04-May-89		10:3/ 10:48	50	09:26	<b>~ ~</b>	Cormed/Go electricact algos tresors, soderate	
			04-May-89		10:53	10 ;	14:10	٥ ٠	parting, moderate processing and a second processing processing the processing processin	
			04-May-89		14:35			• •		
			06-VAM-40		14:43	=	14:24	۰	Dacing, Soderate tresors, Soderate	
			04-May-89		15:06	12.	09:50	<b>~</b> (	significant	
			04-May-89		15:13 15:17	, 2 , 2 , 2	17:51	<b>~</b> ~	normal/no significant signs normal/no significant signs	
			04-May-89 04-May-89		15:20	21	09:25	<b>о о</b>		

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LETTI DIV (	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	PP. PA	I TUTE	OF RE	ESEAR(	<b>.</b>	~	M Data	Listir	Raw Data Listings of Clinical Signs Without Masses Study Mumber: 88008M	PRINTED: 03-0ct-89 Page: 62
PRES DOG/1	IO OF S AGLE	AN FRA	NC I SC	ر د د	9412				Stud	Data Listing by Animal Study Start Date: 07-feb-89	SUB-ACUTE/
Cage	Animet	Sex/group Date	roup	Dete	<b>Pug</b>	7 ine	Study	Study Day/time Oper	e Oper		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
*	Number	/Subgroup Data was Ente	roup	Dete	VAS EI	rered	Date wa	Data was Taken	*	Clinical signs / Comments	
\$2	25 89A00005	N/ 9/1		04-May-89	.89	15:28	13	/ 14:00	•		
			-	04-May-89	4-89	15:30	7.	/ 08:19	٥	lack of appetite, moderate	
			-	04-May-89	4-89	15:43	1,	/ 11:34		lack of appetite, moderate	
			-	04-MBY-89	68-	15:47	14	/ 14:01		lack of appetite, severe	
			_	04-May-89	68-7	15:50	15	/ 06:45		normal/no significant signs	
<b>5</b> 8	89A00049	ì	9/3	11-May-89	4-89	14:35	_	/ 09:30		normal/no significant signs	
				11-May-89	7-89	14:40	_	/ 11:05	•	normal/no significant signs	
				11-May-89	7-89	14:44	-	/ 14:50		normal/no significant signs	
				11-May-89	1-89	14:48	7	7 07:24	0	normal, no significant signs	
				11-May-89	-89	14:55	~	/ 10:55		disoriented, moderate	
				11-May-89	68-	15:05	7	/ 14:13		disoriented, slight	
				11-MBY-89	-89	15:09	•	/ 07:15	6	normal/no significant signs	
				11-May-89	68-	15:14	M	11:10		disoriented, moderate	
				11-May-89	68-7	15:18	~	/ 14:00		disoriented, slight	
				11-May-89	- 89	15:25	4	/ 09:10	•	normal/no significant signs	
				11-May-89	-89	15:32	7	/ 10:56			
				11-May-89	-89	15:35	4	/ 14:30		normal/no significant signs	
				12-May-89		08:30	~	/ 07:18		normal/no significant signs	
				12-May-89		08:38	2	/ 11:15			
				12-May-89		08:45	~	/ 14:04		normal/no significant signs	
				12-Ney-89		08:49	9	/ 07:24			
				12-Ma)		09:01	•	/ 11:12		normal/no significant signs	
				12-Ha)	4-89	90:60	9	/ 15:33	<u>ه</u> ه		
				12-49)	68-	80:60	_	/ 07:54		normal/no significant signs	
				12-Mey-89	68-7	09:14	_	/ 10:31		disoriented, slight	
				12-#8)	4-89	10:13	_	/ 14:55		disoriented, slight	
				15-May-89	69-1	08:07	€	/ 07:17		normal/no significant signs	
			-	15-May-89	1-89	08:16	€	/ 10:25		bleeding from IV site, severe	
				15-May-89	1-89	?:	œ	/ 14:55			
				•	1-89	• •	•	/ 07:23	•	normal/no significant signs	
				15-May-(	-89	08:43	•	/ 10:20		disoriented, slight	
					,		,			bleeding from 1V site, severe	
				15-May-89	1-89	08:54	•	/ 14:00	<u> </u>	disoriented, slight	
				15-May-89	4-89	09:13	20	/ 07:24		soft stool, slight	
										bleeding from IV site, moderate	

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LETTE	ERMAN ARM OF RES SU	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	E OF RESE	ARCH	Raw Data L	isting	Raw Data Listings of Clinica, Signs Without Mauses Study Mumber: 88008M	PRINTED: 03-0ct-89 Page: 63
PRES   006/4	PRESIDIO OF S DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/Beagle	CO, CA 94			Study	Data Listing b. Animal Study Start Date: 07-Feb-89	
	Animal	Cage Animal Sex/group Date and Time	Date and	d Time	Study Day/time Data was Taken		Clinical signs / Comments	
26	: 2	M/ 9/3 15-May-89	15-May-89	19 09:21	10 / 10:31		disoniented, soderate	
1		•	15-May-89		`	٥	normal/no significant signs	
			15-Hay-89		11 / 07:35	0	normal/no significant signs	
			15-May-		11 / 10:24	•	bleeding from IV site, severe	
			15-Mev-80	27.00 00	11 / 14 . 42	0	panting, moderate normal/no significant signs	
			15-May-89		-	•	8 197	
			15-May-89	19 09:57	. <	٥		
			15-May-89		•	٥	normal/no significant signs	
			15-May-&		\	o		
			15-May-89	19 10:13	-	٥		
			15-May-89		`	۰	normal/no significant signs	
			15-May-89		/ 07	•	normal/no significant signs	
			15-May-89		14 / 10:40	٥.	bleeding from IV site, severe	
			15-May-89	10:30	`	•	normal/no significant signs	
			15-May-89		15 / 08:00	•		
27	89A00055	7/6 /H	15-May-89		`	۰		
			15-May-89		1 / 11:20	٥		
			15-May-89		-	٥.	slight	
			15-May-89		2 / 07:	٥	normal/no significant signs	
			15-May-89	15:02		۰	inactive, slight	
			15-May-89		`	•	normal/no significant signs	
			15-May-89		`	٥		
			15-May-89		`	•	normal/no significant signs	
			15-May-89	15:39	3 / 14:30	•	normal/no significant signs	
			15-May-89		/ 0/	•	normal/no significant signs	
			15-May-89	15:51	4 / 11:35	φ.	inactive, moderate	
							tremors, slight	
			15-May-89	15:55	`		inactive, slight	
			16-May-89		`			
			16-May-89	19 08:10	5 / 11:38	•	ficant	
			16-May-E		_	•	significant si	
			16-May-89		6 / 07:58	٥	normal/no significant signs	

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LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	UPP, PATH S	TE OF RESEAR	H S	œ	Raw Data Listings of Study	isting	Clinical Signs Without Masses Number: 88008M	PRINTED: 03-0ct-89 Page: 64
PRESIDIO OF SAW FRANCISCO, CA 94129 DOG/BEAGLE	SAN FRANCISC	SCO, CA 94129	<u>م</u>		1	Stud	Data Listing by Animal Study Start Date: 07-Feb-89	SUB-ACU: K/
	l Sex/group	Animal Sex/group Date and Time	Time	Study		obe .	signs /	
27 89400055	5 N/ 9/4	N/ 9/4 16-May-89		9	/ 10:54	. •	inactive, slight	
		16-May-89		9	_	۰	significant	
		16-May-89		7	`	۰	significant	
		16-May-89		~	`	٥		
		16-May-89		~ •	<u> </u>	<b>o</b> . (	moderate	
		16-MBY-69	76:50	10 ec	42:70 /	<b>&gt;</b> 0	normet/no significant signs	
				,	•	•		
		16-May-89	09:52	80	/ 14:00	٥	stight	
		•						
		16-May-89		•	/ 07:21	٥	normal/no significant signs	
		16-May-89		•	_	۰		
		16-May-89	10:06	•	/ 14:05	•	inactive, slight	
		16-May-89		10	\	•	normal/no significant signs	
		16-May-89	•	10	`	•	increased resp depth, moderate	
		16-May-89		10	`	۰	oderate	
		16-May-89		Ξ	`	•	normal/no significant signs	
		16-May-89		Ξ	•	0	increased resp depth, slight	
		16-May-89	13:55	Ξ	_	•	normal/no significant signs	
		16-May-89	13:58	12	`	٥		
		16-May-89		12	\	•	incrussed resp depth, slight	
		16-May-89		12	\	•		
		16-May-89	14:	<b></b>	/ 07	•	significant	
		16-May-89	14:44	2	/ 11:00	•	increased resp depth, slight	
		16-May-89		₽	\	•	normal/no significant signs	
		16-May-89	14:51	7	`	•	normal/no significant signs	
		16-May-89		7	`	•	tremors, moderate	
		16-Mey-89	15:00	74		٥	normal/no significant signs	
		16-May-89		15	`	۰	-	
28 89A00C06	6 M/10/1	03-MBY-89		_	\	<b>~</b>	normal/no significant signs	
		03-May-89		_	\	Φ.	. ign	
		03-Mey-89	15:23	_	`	•	significant	
		03-May-89		~	`	<b>O</b> . (	significant si	
		03-Mey-89	15:46	~	/ 10:37	•	normal/no significant signs	

HISTORIES
ANIMAL
INDIVIDUAL
(cont.):
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FITFRMAM	AM ARMY	ARMY INSTITUTE OF RESEARCH	9	90 9	9							,							
DIV OF RES PRESIDIO OF	RES SUF 0 OF SA	DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/AFAGIF	CO,	3 3	94 129	<b>z</b> .	_	3 9	)ata	Listi	Deta	OF CL dy Nu List	Raw Data Listings of Clinical Signs Wi Study Number: 86008M Data Listing by Animal Study Start Data: 07-fab-80	8800 8800 7 Anii	75 Ui 8M 8M 80 80 80 80 80	thout	Without Masses	PRINTED: 03.0ct-89 Page: 65	t - 89
		Animal Sex/group Date		22	end Es En	Date and Time Date was Entered	Stud	, 00 k	Study Day/time Data was Taken		1 2	inica	Clinical signs /	, sc	Comments	nts			
			03	3-MeV-8	•	15:53			15:01	:		normal/no		sianificant	CADE	Signs	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 4 1 5 4 4 7 7 8 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9	
			6	04-May-89		08:01		. ~	08:54			normal/no		significant	Cant	Signs			
			70	04-May-89		70:80		_	10:18	•		normal/no		significant	cant	Signs			
			70	04-May-89		08:13		_	14:15	•		normal/no		significant	cant	signs			
			70	04-May-89		08:21	•	_	08:45	۰	-	normal/no		significant	CBNt	signs			
			70	04-May-89		08:32	•	<u>,</u>	10:05			normal/no		significant	cant	signs			
			70	04-May-89		08:37	•	<u>,</u>	14:30	•	_	normal/no		significant	Cant	signs			
			70	04-May-89		08:42	•	_	08:30		_	normal/no		significant	cant	signs			
			70	04-May-89		08:48	•	<u>_</u>	11:36			normal/no		significant	cant	signs			
			70	04-May-89		08:54	•	<u>_</u>	14:00	J.		normal/no		significant	cant	signs			
			30	04-May-89		09:03	•	`	08:25	<b>.</b>		normal/no		significant	cant	signs			
			70	04-May-89		09:11	Ī	/ 9	10:59	<b>.</b>		normal/no		significant	cant	signs			
			0	04-May-89		81:60	Ĭ	`	14:30	٥		normal/no		significant	cant	signs			
			6	04-May-89		09:25		`	00:60	UX.		normal/no		significant		signs			
			70	04-May-89		09:31		1 2	10:17			normal/no		significant	cant	signs			
			70	04-NBY-89		09:37		\	14:24	J		normal/no	no sig	significant		signs			
			70	04-May-89		09:43	_	`	08:45			ftst	soft stool, slight	stigh					
			0	04-Nay-89		09:53	_	/ 8	10:01		_	normal/no	no sig	significant	Bot	signs			
			70	04-May-89		10:00	_	`	14:45			normal/no	no sig	significant		signs			
			0,4	04-May-89		10:11	•	\	09:22			ft st	soft stool, slight	sligh	ı				
			0	04-MBY-89		10:20		/ 6	10:52		_	normal/no	no si	significant	int	signs			
			6	04-May-89		10:25		`	14:24			normal/no		significent		signs			
			70	04-MBY-89		10:37	2	`	07:26			normal/no		significant	cant	sigrs			
			70	04-May-89		10:48	=	`	09:37	Ţ		normal/no		significant		Sigrs			
			0	04-May-89		10:53	Ξ	`	14:08		_	normal/no		significent		sigrs			
			3	04-May-89		14:10	<u>-</u>	`	07:25			normal/no		significant		signs			
			70	-Hay-89		14:36	Ξ	`	10:33	•	_	normal/no		significant	cant	signs			
			70	04-May-89		14:43	-	`	14:24	•	_	normal/no		signifi	cent	signs			
			70	04-May-89		15:06	=	`	06:60	•		normal/no	no sig	significent		S 181 S			
			70	04-May-89		15:13	Ξ	7 7	11:51	٥		/ Jew J	normal/no significant	anifi.		signs			
			0	-May-69		15:17	=	\	14:10	٩	_	rma!/	normal/no signifi	anifi.		signs			
			70	-Hay-89		15:20	=	~	09:25	•		rmal/	normal/no significant	an ifi,		signs			
			0	-Hay-89		15:24	Ξ	`	11:17	O.		rmal/	normal/no significant	anifi,		signs			
			70	-May-89		••	=	\	14:00	Œ.	_	normal/no		significant		Signs			
			è		•														

			<b>€</b>	Appendi	ndix	) Q	(cont.):		INDIVIDUAL		ANIMAL	HISTORIES		
LETTEI DIV OI PRESIG	RMAN ARMY F RES SUP 310 OF SA	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV CP PRESIDIO OF SAN FRANCISCO, 17A 94129	E OF RE ERV CP CO, CA	ESEARC 94129	<b>.</b>	æ	SW OBTB L	isting	Raw Data Listings of Clinical Signs Without Masses Study Mumber: 88008M Data Listing by Animal	Signs 1 88008M Animat	ui thout	Masses	PRINTED: Page:	03-0ct-89 66
DOG/BEAGLE	EAGLE							Stud	Study Start Date: 07-feb-89	07-Feb-1	66			SUB-ACUTE/
	Animel		Date and Time		Time	Study Data	Study Day/time Data was Taken	d	Clinical signs / Comments	5 / Com	nents			
82	28 B9A00006 M/10/1	M/10/1	04-May-89 15:4	-89		14	_	•	lack of appetite, moderate	ite, moc	moderate			
			0:-May-89			1,	\	Φ.	lack of appetite,	ite, mot	moderate			
			04-Mey-89	4-89		<u>.</u>	<u> </u>	۰ (	lack of appetite, moderate	ite, ac	derate			
<del>-</del>	4400048 A	M/10/5	11-864-00	) B - /	14:55		/ 09:30	•	normal/no significant signs tremore alight	711 C B N	SU <b>6</b> 19			
			:	;			•	•	excessive thirst, slight	78t, S!	ight			
			11-May-89	4-89	14:44	-	/ 14:51	۰	normal/no significant	nifican	t signs			
			11-May-89	4-89	7	7	/ 07:25	٠	normal/no significant	nifican				
			11-May-89	4-89		7	/ 10:53	۰	tremors, slight	<u>۲</u>				
			11-Mey-89	4-89	15:06	7	1 14:14	•	normal/no significant	nifican	t signs			
			11-May-89	4-89		M	/ 07:15	۰	normal/no sign	significant	t signs			
			11-May-89		15:15	~	/ 11:11	٥	normal/no sign	significant	t signs			
			11-May-89		15:18	M	/ 14:00	•	normal/no sign	significant	t signs			
			11-May-89		15:25	4	/ 09:10	٠		significant	t signs			
			11-May-89		15:32	4	/ 10:57	•	normal/no sign	significant	t Signs			
			11-HBY-89		15:35	7	/ 14:30	•	normal/no sign	significant	t signs			
			12-May-89		08:30	~	/ 07:18	٠	normal/no sign	significant	t signs			
			12-May		08:38	2	/ 11:17	•	normal/no sign	significant	t signs			
			12-May-89		08:45	S	/ 14:04	•	normal/no sign	significant	t signs			
			12-HBy		67:80	•	/ 07:24	•	soft stool, sl	, slight				
									excessive thirst, moderate	787, MOC	derate			
			12-May-89		09:01	•	/ 11:14	œ	soft stool, slight	l ight				
			12-May		09:05	•	/ 15:34	•	normal/no sign	significant	t signs			
			12-M4y		09:08	~	/ 07:54	•	normel/no sign	*ignificant	t signs			
			12-May			~	/ 10:32	•	soft stool, mo	. moderate				
			12-May		10:13	~	/ 14:55	•	normel/no tign	significant	t signs			
			15-May-89		08:07	€	/ 07:17	•	normal/no sign	significant	t signs			
			15-May-89		08:16	•	/ 10:27	<b>~</b>	normel/no sign	.ignificant	t signs			
			15-May-89		08:21	€0	/ 14:56	•	normal/no sign	significant	t signs			
			15-84		08:28	•	/ 07:23	•	normal/no sign	significant				
			15-May-89		08:43	•	/ 10:21	•		significent	t signs			
			15-May-89			•	/ 14:00	<b>~</b>		significant				
			15-May-89		09:13	2 :	/ 07:25	<b>о</b> - (		significent				
			15-May-89		09:21	2 :	/ 10:32	<b>o</b> - (		significant				
			12-HBy		09:25	2	7 14:10	>	normel/no sign	significant	81808			

			< `	ppe	Appendix	۵	(cont.):		INDIVIDUAL	ANIMAL	HISTORIES	
LETTEI DIV OF	F RES SUF	LETTERMAN ARMY INSTITUTE OF RESEARC DIV OF RES SUPP, PATH SERV GP PATHON OF SAM SPANTINCE TA 04120	E OF RES	RESEARCH P A 94120		ă.	M Date L	sting	Rew Date Listings of Clinical Signs Without Study Number: 88008M Date Listing by Animal	igns Without 108M	Masses sees	PRINTED: 03-Oct-89 Page: 67
DOG/BEAGLE	EAGLE		<b>S</b>					Stud	Study Start Date: 07-Feb-89	Feb-89		SUB-ACUTE/
	<u>.</u>	Animal Sex/group Date and Time Number /Subgroup Data was Entered	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<b>and</b>	Time	Study Dete	Study Day/time Data was Taken	oper.	Clinical signs	Comments		
50	29 89A00044	M/10/3	15-May		09:36	=	/ 07:35	. •	soft stool, slight			
			15-Mey-89	-89	09:43	Ξ	/ 10:25	۰	normal/no significant	ficant signs		
			15-May-89	-89	19:60	=	/ 14:33	٠	normal/no significant			
			15-May-89	-89	09:52	12	00:00 /	0				
			15-May-89	-89	09:58	12	/ 11:23	۰	normal/no significant	ficant signs		
			15-May-89	-89	10:01	12	/ 16:52	٥.	normal/no significant			
			15 - May - 89	-89	10:08	13	/ 08:05	۰	soft stool, slight			
			15-May	-89	10:14	<u>.</u>	/ 11:00	۰	normal/no significant	ficant signs		
			15-May-89	-89	10:19	13	/ 15:50	٥	normal/no significant	ficant signs		
			15 - May	-89	10:22	7	/ 07:29	۰	normal/no significant	ficant signs		
			15-HBY	-89	10:27	7	/ 10:40	Φ.	normat/no significant	ficant signs		
			15-MBY-89	-89	10:30	7	/ 15:00	۰	normal/no significant			
			15-May	-89	10:32	15	00:80 /	٥	normal/no significant	s		
30	89A0005	M/10/4	15-Hay	-89	14:21		/ 07:25	င	normal/no significant	ficant signs		
			15-May-89	-89	14:26	-	/ 11:24	<b>о</b> ъ	normal/no significant	S		
			15-May-89	-89	14:30	-	/ 14:19	Φ.	normal/no significant	ficant signs		
			15-May-89	-89	14:56	7	/ 07:20	<b>o</b> -	soft stool, mode			
			15-MBY	-89	15:02	2	/ 11:35	٥		S		
			15-May	-89	15:07	2	/ 14:04	۰	normal/no significant			
			15-May-89	-89	15:13	~	/ 09:15	٥	normal/no significant			
			15-Mey	-89	15:32	m	/ 11:20	•	normal/no significant	S		
			15-May	-89	15:39	₩	/ 14:30	•	normal/no significant	ficant signs		
			15-Mey	-89	15:46	4	/ 07:24	•	soft stool, slight			
			15-May-89	69	15:51	4	/ 11:41	<b>O</b>	normal/no significant			
			15-Mey	69	15:55	3	/ 14:09	<b>O</b>	normal/no significant			
			16-MBY-89	-89	08:06	•	07:40 /	•	normal/no significant			
			16-MBY-89	-89	08:11	· ·	/ 11:39	۰	normal/no significant	S		
			16-May-89		08:14	· ·	/ 15:26	•		ficent signs		
			16-May-89		08:18	•	/ 07:59	Φ.	soft stool, moderate			
			16-Ney-89		08:22	•	/ 10:55	۰	normal/no significant			
			16-May-89		08:54	•	/ 14:50	<b>o</b>	normal/no significant	ficent signs		
			16-May-89		08:28	<b>~</b>	/ 07:23	<b>o</b>	soft stool, slight			
			16-May-89		08:33	_	/ 10:48	<b>o</b> .	normal/no significant	icant signs		
			16-May-89		08:38	~	/ 15:04	<b>o</b> (	inactive, severe			
			16-MBY-89		25:40	ю (	7 07:29	> 0	sort stool, siight			
			10-Mey-89		74:40	<b>10</b> (	04:01	> 0	normal/no significant	TICENT SIGNS		
			10-May-07		70:40	0	00:*- /	•				

			~	Appendix	dix	٥	D (cont.):	••	INDIVIDUAL ANIMAL	ANIMAL	HISTORIES	
LETTERMAN DIV OF RES PRESIDIO O DOG/BEAGLE	MAN ARM RES SUI TO OF SA	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAM FRANCISCO, CA 94129 DOG/BEAGLE	OF RE D. CA	SEARC! 94129		α. <u>e</u>	Dote L	istin D Stud	Raw Data Listings of Clinical Signs Withou: Masses Study Number: 88008M Data Listing by Animal Study Start Date: 07-feb-89	gns Withour 08M imal Feb-89	E E E E E E E E E E E E E E E E E E E	PRINTED: 03-0ct-89 Page: 68 SUB-ACUTE/
		Animal Sex/group Date and Time Number /Subgroup Date was Entered	9 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	and as Ent	!	Study   Data W	Study Day/time Oper Data was Taken #	Oper	Clinical signs / Comments	Comments		
			16-May-89		09:57	٥٥	07:21	•	normal/no significant signs	icant signs		
		•	16-May		10:07	•	14:06	• •	normal/no signif	icant signs		
		•	16-May-89	•	10:19	10	7 07:25	•	soft stool, slight			
		-	16-May-89	-	10:22	10	10:56	<u>Ф</u>	normal/no significant signs	icant signs		
		-	16-May-89	•	10:26	10	14:28	•	normal/no significant	icant signs		
			16-May-89	•	13:24	Ξ	08:05	٥	normal/no significant	icent signs		
		•	16-May-89	•	13:41	=	11:58	<u>Ф</u>	normal/no significant	icant signs		
		•-	16-May-89	•	13:55	=	7 16:55	•	normal/no significant	icant signs		
			16-May-89		13:58	12	08:10	•	normal/no significant	icant signs		
			16-May-89		14:19	12	/ 11:27	•	normal/no significant	icant signs		
		-	16-May-89		14:31	2	15:40	٥	normal/no significant	icant signs		
		_	16-May-89		14:37	13	07:21	٥	normal/no significant	icant signs		
		-	16-May-89		14:44	73	11:02	0	normal/no significant	icant signs		
			16-May-89		14:48	13	14:55	Φ	normal/no significant			
		-	16-May-89		14:51	1,	60:60 /	•	normal/nc significant	icant signs		
		_	16-May-89		14:55	7.	10:30	٥.	normal/no significant	icant signs		
		•-	16-May-89		15:00	7.	14:30	٥.	normal/no significant	icant signs		
		-	16-May-89		15:08	15 ,	07:41	Φ.	soft stool, moderate			

			4		•				
LETTERMAN ARMY INSTITUTE OF RESEARC Div of Res Supp, path serv GP Presidio of San Francisco, ca 94129 Dog/Beagle	LETTERMAM ARMY INSTITUTE OF DIV OF RES SUPP, PATH SERV G PRESIDIO OF SAM FRANCISCO, C DOG/BEAGLE	TE OF RES	RESEARCH P A 94129		æ	w Data L	isting Di Study	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008F Data Listing by Animal Study Start Date: 31-Jan-89	PRINTED: 03-0ct-89 Page: 1 Sub-Acute/
Cage Animal	Animal Sex/group Date and Time	Date .	and Be Ent	Time	Study Data w	Study Day/time Oper Data was Taken **	Oper	Clinical signs / Comments	
1 89A00022 F/ 1/1	89A00022 F/1/1 21-Feb-89 17:54 12-Apr-89 13:39	21-Feb-89 12-Apr-89	89 1	17:54		1 / 08:52 1 / 09:53	mo	normal/no significant signs disoriented, severe tremors, moderate	
		12-Apr-89		13:57	-	/ 14:04	•	Vostitos Armesors, stight Armesors alight	
		13-Apr-89		10:13	~ ~	7 10:12	٥-0	C.VC. Introd. Bolders of the Control	
				3		2	•	fracordinates according to the source of the	
		08.204.51		10.27	^	71.71 /	0	inactive, moderate	
		1		7 .		F :	• (		
		13-Apr-89		10:36 10:47	ทพ	/ 07:59	<b>~</b> ~	normal/no significant signs disoriented, moderate	
								inactive, moderate diarrhea, slight	
		13-Apr-89		11:02	m	3 / 14:01	۰	tresors, slight	
		13-Apr-89		11:51	4.	/ 08:50	•	Dorsel/no significant signs	
		13-Apr-69		66:11	a .	*6:40 /	>	disoriented, moder te tresors, moderate	
		13-Apr-89		12:05	4	4 / 14:03	٠		
		13-Apr-89		12:15	S	06:30	٥		
		13-Apr-89 13-Apr-89		12:22 12:27	N N	/ 12:32 / 14:05	<b>0</b> 0	inscrive, moderate	
		13-Apr-89		12:31			<b>0</b> 0	normal/no significant signs	

			AF	Appendix		D (c	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
LETTER DIV OF	RES SU	DIV OF RES SUPP, PATH SERV GP	TE OF RES	SEARCH		R	Osta Li:	sting S	Without Masses	PRIMTED: 03-Oct-89 Page: 2
PRESIBIO O	AGLE	PRESIDIO OF SAN FRANCISCO, CA 44129 DOG/BEAGLE	SCO, CA 3	×15×				Study	Dete Librard DV Animal Study Start Date: 31-Jan-89	SUB-ACUTE/
94	Animet	Cage Animal Sex/group Date and Time Mumber /Subgroup Date was Entered	Dete 4	and Be Ent	4	Study C	Study Day/time Oper Data was Taken #	1	_	
-	19A00022	1 89400022 F/ 1/1 13-Apr-89	13-Apr-89	:	12:45	/ 9	/ 14:04		inactive, slight	
					12:48	~ 1	/ 08:51	<u>.</u>	normal/no significant signs	
			13-Apr-89		15:5	-	70:01		disoriented, severe	
									inactive, severe	
			13-Apr-89		12:57	1	7 / 14:45	٥	tremors, moderate	
			•						inactive, moderate	
			13-Apr-		13:04	80	8 / 09:41	•	normal/no significant signs	
			13-Apr-89		3:08	<b>∞</b>	10:42		disoriented, slight	
									tremors, severe	
									vomiting	
									inactive, moderate	
									hunched posture, moderate	
			13-Apr-89		13:18	80	/ 14:38	o.	disoriented, slight	
									tremors, moderate	
									inactive, moderate	
			13-Apr-89		13:23	6	/ 09:38	σ.	normal/no significant signs	
			13-Apr-89		13:28		/ 10:39		disoriented, moderate	
			•						tremors, moderate	
									vomiting	
									inactive, moderate	
			17-Apr-89		08:09	<u>,</u>	9 / 15:07	۰	tremors, slight	
									inactive, moderate	
									increased respiration depth, moderate	
			17-Apr-89		08:40	00	10 / 09:13	0	tremors, slight	
									hunched posture, moderate	
			17-Apr-89		67:80	° 2	10 / 10:41	٥	fremors, severe	
									inactive, severe	
									hunched posture, severe	
									CINOTIENTED, MRKATA	
									increased respiration depth. Boderate	
			17.405.80		00.00	5	10 / 14.26	0		
					***	?	) ! !	•		

PRINTED :				Appe	Appendix	<u>۵</u>	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
Study Statisting by Anniang Study Statisting Study Statisting by Anniang Study Statisting by Anniang Study Statisting by Clinical signs / Comments  19:02 10 / 14:26 9 inactive, severe increased respiration depth, slight inactive, moderate woming the premote severe inactive, moderate inactive, moderate disoriented, moderate inactive, moderate inactive, moderate inactive, moderate inactive, moderate tremote severe disoriented posture, moderate hunched posture, moderate inactive, moderate inactive, moderate disoriented posture, moderate disoriented posture, moderate disoriented selight inactive, moderate disoriented selight inactive, moderate disoriented selight inactive, moderate disoriented selight tremote, severe disoriented selight inactive, moderate disoriented selight moderate di	LETTE DIV O	FRES SUI	Y INSTITUT	E OF RESEAL	RCH 20	œ	SW Data L	istin	gs of Clinical Signs Without Masses Study Mumber: 88008f	PRINTED: 03-Oct-89 Page: 3
and lime Study Day/time Oper use Entered Data was Taken # Clinical signs / Comments pr-89 09:02 10 / 14:26 9 inactive, severe increased respiration depth, slight pr-89 13:32 11 / 09:00 9 tremors, moderate inactive, moderate inactive, moderate pr-89 13:40 11 / 10:28 9 tremors, severe hunched posture, moderate hunched posture, moderate pr-89 13:45 11 / 14:34 9 tremors, moderate hunched posture, moderate hunched posture, moderate franctive, moderate hunched posture, moderate than hunched posture, moderate hunc	000	EAGLE					,	Stud	Start Date: 31-Jan-89	SUB-ACUTE/
2 10 / 14:26 9 2 11 / 09:00 9 0 11 / 10:28 9 1 12 / 08:42 9 9 12 / 11:55 9 2 12 / 14:00 9 1 13 / 08:27 9 1 13 / 11:17 9	C	Animal	Sex/group /Subgroup	Date and Date was f	Time	ļi.	Day/time ias Taken	Oper	Clinical signs / Comments	
2 11 / 09:00 9 0 11 / 10:28 9 11 / 14:34 9 12 / 14:36 9 2 12 / 14:00 9 13 / 08:27 9 1 13 / 08:27 9	-	89A00022	F/ 1/1	17-Apr-89	09:05	10	/ 14:26	•	inactive, severe hunched posture, severe increased respiration denth slight	
0 11 / 10:28 9 11 / 14:34 9 12 / 08:42 9 12 / 11:55 9 2 12 / 14:00 9 8 13 / 08:27 9 1 13 / 11:17 9				18-Apr-89	13:32	:	00:60 /	•	tremors, moderate inactive, moderate buckled posture, moderate	
5 11 / 14:34 9 1 12 / 08:42 9 9 12 / 11:55 9 2 12 / 14:00 9 8 13 / 08:27 9 1 13 / 11:17 9				18-Apr-89		Ξ	/ 10:28	٥	tremors, severe inscrive, severe bucket obsture moderate	
5 11 / 14:34 9 1 12 / 08:42 9 1 12 / 11:55 9 2 12 / 14:00 9 8 13 / 08:27 9 1 13 / 11:17 9									Committing Tooling and a second a	
1 12 / 08:42 9 9 12 / 11:55 9 2 12 / 14:00 9 8 13 / 08:27 9 1 13 / 11:17 9				18-Apr-89	13:45	=	/ 14:34	٠	(Tresors, Boderate	
1 12 / 08:42 9 9 12 / 11:55 9 2 12 / 14:00 9 8 13 / 08:27 9 1 13 / 11:17 9									inactive, moderate hunched posture, severe disoriented, moderate	
9 12 / 11:55 9 2 12 / 14:00 9 8 13 / 08:27 9 1 13 / 11:17 9				18-Apr-89	13:51	12	/ 08:42	•	tremors, moderate inactive, moderate	
2 12 / 14:00 9 8 13 / 08:27 9 1 13 / 11:17 9				18-Apr-89	13:59	12	/ 11:55	٥	TENTENCE DONIEL OF SECOND SECO	
2 12 / 14:00 9 8 13 / 08:27 9 1 13 / 11:17 9									hunched posture, soderate disoriented, soderate	
2 12 / 14:00 9 8 13 / 08:27 9 1 13 / 11:17 9									vomiting increased respiration depth, slight	
8 13 / 08:27 9				19-Apr-89	13:22	12	/ 14:00	٥	inactive, moderate hunched posture, moderate	
1 13 / 11:17 9				19-Apr-89	13:28	13	/ 08:27	۰	disoriented, slight inactive, slight	
hunched posture, moderate disoriented, slight tremors, severe vomiting incremed respiration depth, moderate				19-Apr-89	13:41	13	/ 11:17	٥	hunched posture, moderate inactive, moderate	
Vomiting increased respiration depth, moderate									hunched posture, moderate disoriented, slight tremore, severe	
									vomiting increased respiration depth, moderate	

			Appe	Appendix	۵	(cont.)	: :	INDIVIDUAL ANIMAL HISTORIES		
LETTE DIV O	LETTERMAN ARMY INSTITUTE OF RI DIV OF RES SUPP, PATM SERV GP PRESIDIO OF SAW FRANCISCO. CA	P. PATH	LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP PRESIDIO OF SAM FRANCISCO, CA 94129	£ 6.	œ	aw Dat	B Listi	Rew Date Listings of Clinical Signs Without Aesses Study Number: 88008f Date Listing by Animel	PRINTED: 03-Oct-89 Page: 4	t - 89
<b>1</b> /500	DOG/BEAGLE		•				Stu	Study Start Date: 31-Jan-89	SUS-ACUTE/	ACUTE/
0 m	Animat	Sex/grou/ Subgrou	Cage Animal Sex/group Date and Time Mumber /Subgroup Date was Entere	Time	Study	Study Day/time Data was Taken	do	Clinical signs / Comments		
-	89A00022	F/ 1/1	1 89A00022 F/ 1/1 19-Apr-89 13:5	13:54	£	13 / 14:34	34 9	inactive, slight hunched posture, slight		
			24-Apr-89	11:13	14	14 / 09:30	30 9	tremors, slight inactive, slight		
			24-Apr-89	11:18	14	14 / 10:44	6 77	hunched posture, inactive, slight		
								hunched posture, moderate disoriented, moderate		
								tremors, moderate		
			24-Apr-89	11:26	7	/ 14:31	31 9	_		
								tresors, severe disoriented, soderate		
								inactive, slight		
			24-Apr-89	11:33	15	/ 08:1	15 9			
				,	•					
~	89A00038	F/ 1/2	25 - Apr - 89			7 09:05	0.5	7 normal/no significant signs		
			25-Apr-89	13.5		/ 14:42				
			25-Apr-89	13:4	~					
			25-Apr-89	18:4	~					
								vomiting		
			25-Apr-89	13:5	~ ^	/ 14:00	00	normal/no significant		
			24 - Jun - 89		<b>1</b> 1	/ 10:37		c disoriented goderate		
					•					
			01-May-89	13:5	~	/ 14:13		normal/no significant		
			57-Jun-89		4		30			
			25-Apr-89	14:3	7	/ 13:01				
								vomiting		
			01-May-89	14:2	4	/ 14:20		normal/no significant		
			01-May-89		<b>.</b>			normal/no significant		
			01-May-89	14:2	^ '	7 11:16		TOTAL AND STORY TOTAL		
			01-Key-09	14:59	^ <	7 14:10	0.0	O DOCESTO SIGNIFICANT SIGNS		
			AD ABELLO	*	2					

### A PARTICULE OF SEERER   Raw Date Listings of Citical Signs Without Masses   PRINTED 03-Oct-09   ### PRINTED 05-Oct-05   ##				~	Appe	Appendix	<u>0</u>	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
10.28	LETTER DIV OF PRESID DOG/BE	MAN ARMY RES SUP 10 OF SA AGIE	INSTITUT P. PATH S N FRANCIS	E OF RI	ESEARI 94129		or e	E Data	Listing Study		
6 / 10:28 9 disoriented, slight tremors, slight tremors, slight tremors, slight on the first of the first on the fight of the first on the fight tremors, moderate disoriented, moderate disoriented, moderate disoriented, moderate vomiting tremors, moderate vomiting tremors, slight hunched posture, slight tremors, severe tremors, severe tremors, severe tremors, severe tremors, slight tremors, slight tremors, slight tremors, severe tremors, slight tremors,	<b>0</b>	Animel	Sex/group /Subgroup	Dete	end E	Time	Study Data W	Day/tim as Take	e Oper	ı	1
15:03 6 / 14:39 9 disoriented, slight 15:15 7 / 10:11 9 normal/no significant 15:15 7 / 11:12 9 disoriented, slight 14:28 7 / 14:44 9 vomiting 14:35 8 / 10:05 9 normal/no significant 14:41 8 / 11:06 9 disoriented, slight 15:06 9 / 09:34 9 soft stool, slight 15:06 9 / 09:34 9 soft stool, slight 15:26 9 / 14:20 9 disoriented, moderate 15:37 10 / 09:15 9 vomiting 15:42 10 / 09:15 9 tremors, moderate 15:42 10 / 09:15 9 tremors, moderate 15:42 10 / 09:15 9 tremors, moderate 15:49 10 / 10:54 9 tremors, moderate 15:49 10 / 10:54 9 tremors, moderate 15:49 10 / 14:41 9 tremors, slight 15:49 10 / 14:41 9 tremors, slight 16:40 11 / 16:55 9 disoriented, moderate 17:40 9 disoriented, moderate 18:40 11 / 12:15 9 disoriented, moderate 18:40 11 / 14:00 9 disoriented, slight 18:40 9 disoriented, moderate 18:40 11 / 14:00 9 disoriented, slight 18:40 9 disoriented, moderate 18:40 11 / 14:00 9 disoriented, slight 18:40 9 disoriented, moderate 18:40 11 / 14:00 9 disoriented, slight 18:40 9 disoriented, slight 18:40 9 disoriented, moderate 18:40 9 disoriented, moderate 18:40 9 disoriented, slight	8 2	9400038	F/ 1/2	01-Ne	y-89	14:51	9	/ 10:28	•	disortented, slight	1
15:11 7 / 10:11 9 normal/no significant 15:15 7 / 11:12 9 disoriented, slight tremors, moderate 14:28 7 / 14:44 9 vomiting tremors, moderate 14:41 8 / 11:06 9 disoriented, slight tremors, moderate 14:55 8 / 15:12 9 disoriented, slight tremors, slight tremors, slight 15:06 9 / 19:34 9 soft stool, slight 15:26 9 / 14:20 9 disoriented, moderate tremors, moderate disoriented, moderate disoriented, moderate vomiting tremors, slight hunched posture, slight hunched posture, slight tremors, severe hunched posture, slight tremors, severe tremors, severe tremors, severe tremors, severe tremors, severe tremors, slight tremors, severe tremors, slight tremors, severe tremors, severe tremors, severe tremors, slight tremors, severe tremors, slight tremors, severe tremors, slight tremors, severe tremors, slight tremore, sl				01-He)	y-89	15:03	•	/ 14:39		disoriented, slight	
14:28				01-He	Y-89	15:11	~ ^	/ 10:11		normal/no significant signs	
14:28					¥-0,	6 : 6	•	71:11			
14:28										tremors, moderate	
14:35				02-May	y-89	14:28	7	1 14:44	۰	vomiting	
14:35										tremors, moderate	
14:41     B / 11:06     9       14:55     B / 15:12     9       15:06     9 / 09:34     9       15:26     9 / 14:20     9       15:26     9 / 14:20     9       15:37     10 / 09:15     9       15:42     10 / 10:54     9       15:49     10 / 14:41     9       08:04     11 / 08:38     9       08:14     11 / 12:15     9       08:22     11 / 14:00     9				02-Me)	y-89	14:35	€0	/ 10:05		normal/no significant signs	
14:55       8       / 15:12       9         15:06       9       / 09:34       9         15:18       9       / 11:06       9         15:26       9       / 14:20       9         15:37       10       / 09:15       9         15:42       10       / 10:54       9         15:49       10       / 14:41       9         08:04       11       / 08:38       9         08:14       11       / 12:15       9         08:22       11       / 14:00       9				02 - Me)	4-89	14:41	<b>40</b>	/ 11:06		disoriented, slight	
15:06 9 7 09:34 9 15:12 9 15:06 9 7 09:34 9 15:18 9 7 11:06 9 15:26 9 7 14:20 9 15:42 10 7 10:54 9 15:42 10 7 10:54 9 15:42 10 7 14:41 9 15:49 11 7 12:15 9 08:14 11 7 12:15 9 08:22 11 7 14:00 9										tremors, moderate	
15:06 9 / 09:34 9 15:18 9 / 11:06 9 15:26 9 / 14:20 9 15:37 10 / 09:15 9 15:42 10 / 10:54 9 15:42 11 / 14:41 9 08:04 11 / 12:15 9 08:14 11 / 12:15 9				02-Ma)	y-89	14:55	•0	/ 15:12	٥	disoriented, slight	
15:06 9 7 09:34 9 15:18 9 7 11:06 9 15:26 9 7 14:20 9 15:42 10 7 09:15 9 15:49 10 7 14:41 9 08:04 11 7 08:38 9 08:14 11 7 12:15 9										tremors, slight	
15:18 9 / 11:06 9 15:26 9 / 14:20 9 15:37 10 / 09:15 9 15:42 10 / 10:54 9 15:49 10 / 14:41 9 08:04 11 / 08:38 9 08:14 11 / 12:15 9				02-Ma	y-89	15:06	Φ.	/ 09:34		soft stool, slight	
15:26 9 / 14:20 9 15:37 10 / 09:15 9 15:42 10 / 10:54 9 15:49 10 / 14:41 9 08:04 11 / 08:38 9 08:14 11 / 12:15 9				02-Me)	y-89	15:18	Φ.	/ 11:06		vomiting	
15:26     9 / 14:20     9       15:37     10 / 09:15     9       15:42     10 / 10:54     9       15:49     10 / 14:41     9       08:04     11 / 08:38     9       08:14     11 / 12:15     9       08:22     11 / 14:00     9										disoriented, moderate	
15:26 9 / 14:20 9 15:37 10 / 09:15 9 15:42 10 / 10:54 9 15:49 10 / 14:41 9 08:04 11 / 08:38 9 08:14 11 / 12:15 9										tremors, moderate	
15:37				02-Ma)	y-89	15:26	0	/ 14:20		disoriented, moderate	
15:42 10 / 09:15 9 15:42 10 / 10:54 9 15:49 10 / 14:41 9 08:04 11 / 08:38 9 08:14 11 / 12:15 9										tremors, moderate	
15:42 10 / 10:54 9 15:49 10 / 14:41 9 08:04 11 / 08:38 9 08:14 11 / 12:15 9				02-N®	y-89	15:37	9 ;	/ 09:15		tremors, slight	
15:49				02-He	y-89	15:42	2	/ 10:54		tremors, moderate	
15:49										disoriented, moderate	
08:04 11 / 08:38 9 08:14 11 / 12:15 9				;	,	•	,		•		
08:04 11 / 08:38 9 08:14 11 / 12:15 9 08:22 11 / 14:00 9				02-Na	۸ - 89	15:49	2	14:41	<b>3</b> -	tremors, moderate disoriented, stimpt	
08:04 11 / 08:38 9 08:14 11 / 12:15 9										hunched posture, slight	
08:14 11 / 12:15 9				03-Ma)	y-89	08:04	Ξ	/ 08:38	٥	tresors, slight	
08:14 11 / 12:15 9					ı.					panting, moderate	
08:22 11 / 14:00 9				03-Ha)	y-89	08:14	Ξ	/ 12:15	•	disoriented, moderate	
08:22 11 / 14:00 9										vomiting	
08:22 11 / 14:00 9										tremors, severe	
A 00:51 / 11 77:80				,		6	;	•		hunched posture, slight	
				- CD	×- 8×	77:90	=	00:4: /		01807167167, 81.1671	

HISTORIES
ANIMAL
INDIVIDUAL
(cont.):
Appendix D

					7	who and in	2	3 3	(come.)		TUDIATOR WILLIAM TOTAL TOTAL	
LETTER DIV OF	LETTERMAM ARMY INSTITUTE OF R. DIV OF RES SUPP, PATM SERV GP	= ,	PATH	SERV G	RESEARCH GP	#C#		7 a s	ata Li:	sting S	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008F	0: 03-0ct-89 e: 6
DOG/BEAGLE	PRESIDIO OF SAM FRANCISCO, CA 44129 DOG/BEAGLE		KANC	, 000		<b>.</b>	,	1		Study	Data Fiscing by Animal Study Start Date: 31-Jan-89	SUB-ACUTE/
	Cage Animal	Sex /SL	mel Sex/group ber /Subgroup	p Dete	Date and Date was En	Animal Sex/group Date and Time	, •	Study Day/time Data was Taken		•		1 ! ! !
2	2 89A00038 F/ 1/2 03-Nay-89 08:22 03-Nay-89 08:30 03:30 03:36		1/2	- 80 - 80 - 80	03-Nay-89 03-Nay-89 03-Nay-89	08:22 08:30 08:36		11 / 14:00 12 / 08:31 12 / 11:41	1		hunched posture, slight tresors, severe tresors, severe	1
				N- £0	03-May-89	90:60	¥	12 / 14:40	05:5	۰	disoriented, moderate vomiting hunched posture, slight fremors, moderate	
				03-K 03-R	03-May-89 03-May-89	09:08 09:11		13 / 10	/ 10:00 / 11:03	••	disoriented, Boderate tresors, Boderate tresors, Boderate	
				N- £0	03-May-89	09:29		13 / 14:45	57:4	٠	vositing increased respiration depth, slight tresors, slight	
				03-H 03-H	03-Mey-89 03-Mey-89	09:35 09:43	<u>.</u>	14 / 09:00 14 / 10:27	9:00	• •	disoliented, silunt tremons, moderate tremons, moderate	
				;			•	•	•	ď	Vositing hunched posture, soderate excess selivation, soderate	
			:	H-50	03-May-89	09:57		15 / 07:23	07:23	<b>~</b> ~ •		
'n	2 694000		<u>.</u>	0	10-May-89			5 <del>-</del>	35	• •	COmmittee alight	
				00000	10-KBY-89 10-KBY-89 10-KBY-89 10-KBY-89 10-KBY-89	08:15 08:17 08:19 08:24 08:28		107/WW	14:03 07:10 10:24 14:22 07:45	00000	normal/no significant signs normal/no significant signs disoriented, alight normal/no significant signs vomiting	
				· }	; •			•			inactive, slight	

LETTE DIV 0		// 1 1 2 T 1 7 I			3	(	istin			03-0ct-89
- 410	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	DIV OF RES SUPP, PATH SERV GP	SERV GP	ESEAKI	<b>5</b>	Raw Data L		Raw Data Listings of Clinical Signs Without Masses Study Number: 88008F	PRINIED: C	7
000/8	PRESIDIO OF S DOG/BEAGLE	PRESIDIO OF SAW FRANCISCO, CA 94129 Dog/Beagle	SCO, CA	9412			Stud	Data Listing by Animal Study Start Date: 31-Jan-89		SUB-ACUTE/
	Animat	Cage Animal Sex/group Date and Time	p Date	and was Ent		Study Day/time Data was Taken	Oper	Clinical signs		
m	: 6	A00072 F/ 1/4 10-May-8	10-May-89	V 80	9 08:33	3 / 10:26	• •	disoriented, slight orients and		) ; ; ; ;
			10-May-89	×-89	08:40	` `	• •			
			10-KBY-89	68-X	08:43	4 / 11:50	<b>~</b> •	normal/no significant signs		
			10-Mey-89	, 89 ×	08:51	. ~	• •	significant		
			10-May-89	y-89	08:53	5 / 10:45	۰			
								excess selivation, moderate		
			10-May-80	8	08.56	`	۰	excessive thirst, moderate normal/no significant signs		
			10-May-89	×-89	08:58	6 / 07:12	•			
			10-May-89	4-89	09:01	` ~	٥			
								inactive, slight		
								disoriented, slight		
								thirst, mode		
			10-May-89	y-89	09:03	`		significant		
			10-May-89	¥-89	09:05	7 / 07:39	<b>о</b> .	normal/no significant signs		
			10-May-89	y-89	09:07	`		vomiting		
								inactive, slight		
								disoriented, slight		
				6	•	•	•	excessive thirst, moderate		
			10-MBY-07	, a	00.50	A / 07:18	0	CIBOLICITOR, BILDIA		
			10-May-89	- 80	09:23		•			
						•		inactive, slight		
			10-May-89	y-89	09:31	`	٥	inactive, slight		
			10-May-89	y-89	09:33		<b>О</b>	normal/no significant signs		
			10-May-89	y-89	09:35	`	٥	disoriented, moderate		
								inactive, moderate		
								vomiting		
								excess salivation, severe		
			10-May-89	y-89	09:39	9 / 14:11	٥			
			10-Mey-89	y-89	09:41	10 / 09:05	<b>о</b> (	normal/no significant signs		
			10-May-89	٧-89	09:43	10 / 10:25	>	disoriented, moderate		

			K	pper	Appendix	) Q	(cont.):	::	INDIVIDUAL ANIMAL HISTORIES	
LETTERMAN AND DIV OF RES SPECIOLO OF DOG/BEAGLE	MAN ARMY RES SUP. 10 OF SA. AGLE	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	E OF RE ERV GP CO, CA	SEARC 94129	<b>.</b>	ž	ar Data	Listir G Stud	l Signs Without Masses 88008F Y Animal 31-Jan-89	<u>a</u>
0.00	Cage Animal	Cage Animal Sex/group Date and Time # Number / Subgroup Date was Entered	Date Date	and as En	Time	Study Date	Study Day/time Oper Date was Teken #	e Oper	Clinical signs / Comments	:
<b>1</b>	3 89A00072 F/ 1/4	3 89A00072 F/ 1/4 10-May-89 09:43	10-May-89	60		10	10 / 10:25	•	COSTITUTE PATPERS RELIXETION	
			10-May-89		97:60	2:	/ 14:30	••	normal/no significant signs	
			10-May-89		09:51	=	` `			
									Vosition	
			10-May-89		09:57	=	/ 14:10		excess serivation, signing noisely or signing noisely or significant signs	
			10-May-89		10:00	12	. 🔪	٥	excess salivation, moderate	
			10-May-89	-89	10:02	12	/ 10:43		disoriented, slight	
									Inscrive, scrent Volitino	
									excess salivation, slight	
			30.Vell.00	36.	10.06	12	`		excessive thirst, siignt normal/no significant signs	
			10-May-89		10:09	1 5	7 07:45	• •	Lack of appetite, moderate	
			10-May-89		10:12	13	. \		disoriented, slight	
									inactive, moderate	
			10-May-89		10:15	13	13 / 15:15	٥	disoriented, slight	
			10-May-89	-89	10:18	14	14 / 07:12	٥	normal/no significant signs	
			10-May-89	-86	10:21	14	/ 09:50		excess salivation, severe	
									excessive thirst, slight	
			08,000		10.25	16	15.71 / 71	•		
			2			•			hunched posture, slight disoriented slight	
			10-May-89		10:27	15	/ 07:16			
4	89A00031	F/ 2/1	21-Feb-89		17:54	<b></b> •	00:60 /	m (	normal/no significant signs	
			12-Apr-89		13:43	-	70:01 /		disoriented, moderate tremors, moderate	
									Jactive, goderate	

			Appe	Appendix	D (con	(cont.):	-	INDIVIDUAL ANIMAL HISTORIES	
LETTER! DIV OF	MAN ARM	DELY OF RES SUPP, PATH SERV GP	DIV OF RES SUPP, PATH SERV GP	RCH	8 8 3	ata Lis	tings St	Eithour Masses	PRINTED: 03-Oct-89 Page: 9
PRESIDIO OI DOG/BEAGLE	AGLE	AN FRANCIS	PRESIDIO OF SAN FRANCISCO, CA 54129 DOG/BEAGLE	62			Study	Data Listing by Animal Study Start Date: 31-Jan-89	SUB-ACUTE/
0 <b>0</b>	Animet	Sex/group /Subgroup	Cage Animal Sex/group Date and Time	Time	Study Day/time Oper Data was Taken #	/time O		Clinical signs / Comments	
68 7	9A00031	F/ 2/1	4 89A00031 F/ 2/1 12-Apr-89 13:43	13:43	1 / 10:02	•		excess salivation, severe	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			12-Apr-89	13:58	1 / 14:17	4:17	•	disortected, goderate	
			13-Apr-89	10:14	2 / 10:15	0:15	0.0	organism accelera organism incort signs instrict	
						2	-	OC: 100 CO	
			13-Apr-89	10:29	2 / 1	/ 14:35	o	inactor, stignt	
			13-Apr-89		3 / 0	/ 07:43	•	disofienced, significant signs	
			13-Apr-89	10:49	3 / 0	25:6		inactive, moderate	
							, (	Vositing	
							. 0	disoriented, moderate	
			13-Apr-89	11:03	3 / 1	/ 14:06	•	inactive, moderate	
					•	6		tremons, slight	
			13-Apr-89	11:57	7 10:00	00:00	> o	normal/no mignificant signs inactive, moderate	
								voniting	
							•	excess salivation, moderate	
			14-74-RO	12.06	70:71 / 7	70:7	ص. ب <u>ا</u>	thesons, sodenste	
							-	tremors, moderate	
			13-Apr-89	12:15	08:80 / 6	05:7	- ' >	Inactive, siight	
			13-Apr-89	12:23	5 / 12:35	2:35	۔. د	remors, stight nactive, slight	
			11.407.80	12.2	7 / 5	70.7		**************************************	
			0 - 10 V - C 1	12.4	- 6	00.0			
			13-Apr 89	12:31	· ·	10.30	> o	norment/no engoliticant elgas institut elliabri	
				:		)	_	excess selication, slight	
			13-Apr-89	12:46	6 / 14:05	4:05	۰ م	inactive, slight	

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ETTE:	RMAN ARM!	LETTERMAN ARMY INSTITUTE OF RIDITY OF RES SUPP. PATH SERV GP	IE OF RESEARCH	RCH	α 4	w Data Li	sting	Raw Data Listing: of Clinical Signs Without Masses Study Number: 86008f	PRINTED: 03-0ct-89 Page: 10
RES 1:	PRESIDIO OF SADOG/BEAGLE	AN FRANCIS	SAM FRANCISCO, CA 94129				Da Study	Data Listing by Animal Study Start Date: 31-Jan-89	SUB-ACUTE/
	Cage Animal	Cage Animal Sex/group	Animal Sex/group Date and Time	Time Entered	Study Date w	Study Day/time Oper Data was Taken #		1 1 1 1 1	• • • • • • • • • • • • • • • • • • •
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			15-Apr-69	12:52		90:01 /	>	/ogiting fregors, goderate discrediented Boderate	
			13-Apr-89	12:58	7	7 / 14:45	۰	tresors, soderste	
								disoriented, soderate	
								hunched posture, moderate	
			13-Apr-89		40	/ 09:43	φ.	normal/no significant signs	
			13-Apr-89	13:09		/ 10:44	•	inactive, slight	
								timesors, moderate	
								disoriented, slight	
			13-Apr-89		<b>&amp;</b>	/ 14:38	<b>o</b> (		
			13-Apr-89	13:24	> 0	44:40		normal/no significant signs	
			13-Apr-69		•	C#:01 /	•		
								TIGEOTS, BOOKERS OF THE STATE O	
								describing moderate	
			17-Apr-89	08:10	٥	9 / 15:07	۰	tremors, moderate	
			•					disoriented, slight	
								hunched posture, slight	
			17-Apr-89		10	10 / 09:13	0	normal/no significant signs	
			17-Apr-89	08:50	10	/ 10:44	•	tremors, moderate	
								disoriented, moderate	
								hunched posture, slight	
			17-Apr-89		10	/ 14:27	0	disoriented, slight	
			18-Apr-89	13:36		00:60 /		normal/no significant signs	
			18-Apr-89		11	/ 10:33	٥.	vomiting	
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			18-ADT-6Y	70:01	~	C*:90 / 71		COLEGE/DO BIGOTICEDE SIGNS	

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C	Animal	Se /S	Sex/group Date a	p Det	Sex/group Date and Time /Subgroup Date was Entered	Time	Study Onto E	Study Day/time Open Data was Taken #	. 0	Clinical signs / Comments	
<b>60</b>	4 89A00031 F/ 2/1 18-Apr-89 13:59	1 ta. 1	F/ 2/1		18-Apr-89	13:59	12	12 / 12:00	• •	tremors, severe disoriented, moderate hunched posture, moderate vomiting inscrive, moderate	
				19-4 19-4 19-4	19-Apr-89 19-Apr-89 19-Apr-89	13:22 13:28 13:43	525	/ 14:00 / 08:27 / 11:23	000		
				19-7 24-A 26-A	19-Apr-89 24-Apr-89 24-Apr-89	13:54 11:13 11:18	E 4 4	/ 14:34 / 09:30 / 10:40	000	normal/no significant signs normal/no significant signs inactive, slight	
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\$	89A00063		F/ 2/3	24-A	24-Apr-89 10-May-89	11:34	₹-	/ 08:15 / 07:30	<b>~ ~</b> (	normal/no significant signs normal/no significant signs	
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				10-x	10-Mey-89 10-Mey-89	13:41	NM	74:00	••	inactive, moderate inactive, alight normal/no significant signs	
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	Appendix	2	Appendix D (cont.):	INDIVIDUAL ANIMAL HISTORIES	ANIM	7	HISTORIES	
TUTE OF	TUTE OF RESEARCH		Raw Data Listin	Raw Data Listings of Clinical Signs Without Masses	igns Wit	hout	Hasses	ď
H SERV GP	9			Study Number: 88	008F			

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99A00063 f / 2/3 10-May-89 14:34	Cage Anima(	Sex/grou /Subgrou	p Date and q	Time	Study Day/time Data was Taken		linical signs / Comments	
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14:43 5 / 11:12 9 vomiti'  disoriented, slight inactive, moderate inactive, moderate of 07:13 9 normal/no significant tremors, slight tremors, slight excessive thirst, moderate of 07:10 9 normal/no significant tremors, slight excessive thirst, moderate of 07:10 9 normal/no significant tremors, slight inactive, moderate of 07:10 9 normal/no significant tremors, slight inactive, moderate of 07:15 9 vomiting disoriented, slight inactive, slight disoriented, slight excessive thirst, sevental tremors, slight disoriented, slight pacing, moderate tremors, slight pacing, moderate tremors, slight pacing, moderate of 07:13 9 soft stool, slight inactive, moderate of 07:10 9 normal/no significant 12:10 10 / 07:09 9 normal/no significant			10-4sy-89		5 / 07:17		significant	
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	Cage Animal Sex/group	Se.	houbgr	Animal Sex/group Date and Time Number / Subgroup Data was Entered	E E	Time	Study Data	Study Day/time Data was Taken	Ö	,	Clinical signs / Comments	
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				10-May-89	y-89	08:56	\$	5 / 14:20		6	normal/no significant signs	
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Study Start Date: 31-Jan-89  Time Study Day/Lime Oper  Tered Data was Taken # Clinical signs / Comments  09:01 6 / 10:49 9 vomiting signt front signs  09:06 7 / 10:31 9 normal/no significant signs  09:06 7 / 10:31 9 normal/no significant signs  09:06 7 / 10:31 9 normal/no significant signs  09:07 7 / 10:31 9 normal/no significant signs  09:24 8 / 10:27 9 vomiting signs  09:24 8 / 10:27 9 vomiting signs  09:35 9 / 10:35 9 vomiting signs  10 / 09:05 9 normal/no significant signs  09:45 10 / 14:39 9 normal/no significant signs  09:46 10 / 14:39 9 normal/no significant signs  09:46 10 / 10:26 9 vomiting significant signs  09:47 10 / 10:26 9 vomiting significant signs  09:48 10 / 14:30 9 normal/no significant signs  09:49 11 / 10:40 9 excessive thirst, moderate excess salivatior, severe excess salivatior, severe excess salivatior, severe excessive thirst, moderate  09:40 10 / 10:26 9 vomiting significant signs  09:57 11 / 10:40 9 excessive thirst, moderate indicating signs  09:59 11 / 10:40 9 excessive thirst, moderate indicating signs  09:50 9 excessive thirst, moderate excess salivatior, severe excessive thirst, moderate indicating signs  09:50 9 excessive thirst, moderate indicating signs  09:50 9 excessive thirst, moderate excessive thirst, moderate indicating signs  09:50 9 excessive thirst, moderate excessive thirst, moderate indicating signs  09:50 9 excessive thirst, moderate excessive thirst, moderate indicating signs  09:50 9 excessive thirst, moderate excessive thirst, moderate indicating signs	LETTE	RHAN ARNI F RES SUF	P INSTITU	TE OF RE SERV GP	SEAR	± ,	<b>≃</b>	M Data L	isting	Without Masses	4TED: 03	1-0ct-89
d Date was Taken # Clinical signs / Comments  1 6 / 10:49	D06/8	EAGLE		800, CA	71%				Study		3	JB-ACUTE/
1 6 / 10:49 9 vomiting 1 ccessive thirs, moderate 2 ccessive thirs, moderate 3 commal/no significant signs 5 7 / 10:31 9 vomiting 1 7 / 10:31 9 vomiting 1 7 / 14:34 9 normal/no significant signs 1 7 / 14:34 9 normal/no significant signs 2 ccessive thirs, moderate 3 ccessive thirs, moderate 4 ccessive thirs, moderate 5 ccessive thirs, moderate 5 ccessive thirs, moderate 6 ccessive thirs, moderate 6 ccessive thirs, moderate 7 / 14:09 9 normal/no significant signs 8 / 10:26 9 vomiting 8	9	Animal	Sex/group /Subgroup	o o o to	a a	Time	Study Date w	Day/time as Taken	Oper			
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UV:49 11 / U/:UD 9 excessive thirst, 09:52 11 / 10:40 9 excessive thirst, vomiting vomiting alight				10-May		97:60		7 14:30	<b>o</b> (			
UV:32				Ver - Or		7:40		90:70 /	> 0	thirst,		
				(8H-01		76:40	=	04:01 /	•	, 187, 113		

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LETTER DIV OF	DIV OF RES SUPP, PATH SERV GP	PP. P.	TITUTE ATH SE	LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	SEARCH	-	Raw Dat	List	Raw Data Listings of Clinical Signs Study Number: 88008F	ns Without Masses BF	PRINTED: 03-Oct-89 Page: 16
PRESIDIO OI DOG/BEAGLE	AGLE	# .	ANC I SL	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	94129			25	Data Listing by Animal Study Start Date: 31-Jan-89		
Cage An	Cage Animal	Sex/	Broup	Sex/group Date and Time	Pud	Time	Study Day/time Oper	. 0	,		· · · · · · · · · · · · · · · · · · ·
•		gns/	group	MUMBER /Subgroup Date Was threfed	103 <b>80</b>	rered	UBIB WBS Laken	:	Cilolical Signs / Comments		
9	6 89A00066 F/ 2/4	11	2/4	10-May-89	9 69-	09:52	11 / 10:40				
				10-May-80		09:57	_	0	excess salivation, slight	stignt cont signs	
				10-Mey-89		10:00	12 / 07:22	22	9 normal/no significant		
				10-May-89		10:03	`	0	vomiting clicks		
									disoriented, slight	ht	
									excess salivation, moderate	moderate	
				0		10.01	•	ď	some thirst, moderate	Soderate for a constant	
				10-14-70		00.0	` `	, v			
				10-May-89		10:13	13 / 09:59	0.00	9 VOSITIOS		
									inactive, moderate	4	
									disoriented, slight	at	
									excessive	moderate	
				10-May-89		10:16		~	normal/no		
				10-May-89		10:18	\	- (	9 normal/no significant	cant signs	
				10-Msy-89		10:21	14 / 09:52	~			
									inactive, slight		
									disoriented, silght	3.5	
				;						<b>3</b> 000010	
				10-May-89		67:01					
•	*		•	AC-MEN-OL		10:40	13 / 07:10		segia institute segia con la segua		
-	700044			12-Apr-89		13:45			9 tremors alight		
				!		:	•				
									staggering, moderate	a te	
									vomiting		
				12-Apr-89		13:59	`		disoriented, slight		
				13-Apr-89		10:14		6	normal/no significant	cent signs	
				13-Apr-89		10:22	2 / 11:24		vomiting		
									tremors, slight		
						40.74	72.74 / 6	2	disoriented, moderate		
				13-Apr-07		10:01			stadarios eligni		
				13-Apr-89		10:38	3 / 07:47	6 2	normal/no significant signs	cent signs	
				•					ı		

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LETTE DIV 0	ERMAN ARM	LETTERMAN ARMY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP	LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	RCH	Raw Dat	a Listi	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008f	PRINTED: 03-0ct-89 Page: 17
PRES 1 006/8	PRESIDIO OF SA	AN FRANCI	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/Beagle				ting by Animal Date: 31-Jan-89	SUB-ACUTE
Cag	Animal	Sex/group /Subgroup	Cage Animal Sex/group Date and Time	Time	Study Day/t		Oper # Clinical signs / Comments	
	89400025	7 89A00025 F/ 3/1	89A00025 F/ 3/1 13-Apr-89 10:52	10:52	3 / 09:53	53 9	vomiting	
							thesons, sodenste	
							bunched posture, slight	
			13-Apr-89	11:05	3 / 14:09	6 60		
			•				hunched posture, slight	
							inactive, slight	
			13-Apr-89	11:52	50:60 / 7	0 0	normal/no significant signs	
			13-Apr-89				vomiting	
							tremors, moderate	
							disoriented, moderate	
							hunched posture, moderate	
			13-Apr-89	12:09	4 / 14:05	05 9	fremors, severe	
							hunched posture, moderate	
							inactive, severe	
							excess salivation, moderate	
			13-Apr-89	12:16	5 / 09:30	30	tremors, slight	
			•				inactive, moderate	
			13-Apr-89	12:2	5 / 12:34		vomiting	
			13-Apr-89		5 / 14:10	10 9	normal/no significant signs	
			13-Apr-89	12:3	`		normal/no significant signs	
			13-Apr-89	12:4	6 / 10:43		tremors, slight	
			•				inactive, slight	
							excess salivation, slight	
			13-Apr-89		6 / 14:06		inactive, slight	
			13-Apr-89	12:49	2 / 08:	52 9	normal/no significant signs	
			13-Apr-89		`		vomiting	
							tresors, moderate	
			1				excess salivation, slight	
			13-Apr-89	12:59	7 / 14:46	6 95	tremors, moderate	
					-		Josephy E. Boderate	
			OB. CAS. T.		.00 / 4		disoriented, moderate	
			13-Apr-69	1 2 . 5	6 / UV:45	, 0		
			12 14 17					

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LETTERMAN / DIV OF RES PRESIDIO OI DOG/BEAGLE	IN ARMY TES SUPP TOF SAN	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	E OF RES	SEARC 94129	I	<b>~</b>	BE Date	Listin D Stud	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008F Data Listing by Animal Study Start Date: 31-Jan-89
Cage Anim	inimal S	Cage Animal Sex/group Date and Time	Date Date	and Be En	Time	Study	Study Day/time Oper Data was Taken #	e Oper	
7 89.4	100025	7 89A00025 F/ 3/1 13-Apr-89 13:10	13-Apr	<b>6</b>	13:10	• <b>60</b> • • •	8 / 10:51	•	inactive, moderate inactive, moderate disoriented, moderate excess salivation, slight increased respiration depth, slight
			13-Apr-89 13:20	-89	13:20	•0	8 / 14:39	•	inactive, moderate disoriented, slight
			13-Apr-89		13:25	٥	77:60 / 6	٥	Inemors, Boderste inemoris, Minght Finding 1000-100
			13-Apr-89 13:30	-89	13:30	•	9 / 10:45	•	Tabertive, severe
			17-Apr-89		08:12	•	9 / 15:08	۰	tremors, severe increased respiration depth, severe inactive, moderate
			17-Apr-89 08:41	-89	08:41	10	10 / 09:14	•	inective, moderate tremon, moderate tremon, moderate
									vomiting disoriented, moderate hunched posture, moderate
			17-Apr-89 08:50	68-	08:50	5	10 / 10:47	•	inactive, severe tremoral and
			17-Apr-89		09:04	10	10 / 14:28	•	inactive, severe tresors, severe disoriented, soderste hunched bosture, soderste
			18-Apr-89		13:37	Ξ	11 / 09:00	•	increased respiration depth, slight tresors, soderate inscrive, soderate
			18-Apr-89 13:41	68-	13:41	=	11 / 10:37	•	disoriented, stight inactive, moderate vomiting hunched posture, moderate increased respiration depth, slight

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EAGLE	, , , , , , , , , , , , , , , , , , ,				1	,	Study	Study Start Date: 31-jan-89		SUB-ACUTE/
Animal Sex/group Date and Time Number /Subgroup Date was Entered	P Date	Pu E	Time	Study Day/time Data was Taken	Day	Study Day/time Oper Data was Taken #	Oper #			
89A00025 F/ 3/1 18-Apr-89 13:47	18-Apr-	6.9	13:47	Ξ	-	11 / 14:34 9	; <b>^</b>			
	18-Apr-89 13:5	-89	13:53	12	0 /	12 / 08:44	۰	extens serivation, moderate inactive, moderate soft stool, slight and increased recoinsting danth moderate		
	18-Apr-89 14:0	68-	14:00	12	-	12 / 11:59	٥	increased respiration depth. inactive, severe vomiting tremors, severe		
								disoriented, slight hunched posture, moderate		
	19-Apr-89		13:23	12	- '	12 / 14:00	٥	inactive, moderate tremors, slight disoriented, moderate		
	19-Apr-89 13:2	69	13:29	13	0 /	13 / 08:27	•	hunched posture, moderate inactive, moderate		
	19-Apr-89		13:45	13	1	13 / 11:23	٠	inactive, severe vomiting		
	19-Apr-89		13:55	13	, -	13 / 14:36	>	hunched posture, moderate increased respiration depth, slight inactive, slight increased respiration depth, slight	slight slight	
	24-Apr-89	68	11:14	14	0 \	14 / 09:30	۰	disoriented, slight inactive, moderate		
	24-Apr-89	-89	11:20	12		14 / 10:50	٥	vomiting tremore, alight		
					•			inactive, moderate disoriented, moderate hunched posture, slight excess salivation, moderate		
	24-Apr-89 11:2	69	11:29	7	-	14 / 14:39	٥	increased respiration depth, vomiting	s i ight	

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LETTERMAN / DIV OF RES PRESIDIO OI DOG/BEAGLE	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAW FRANCISCO, CA 94129 DOG/BEAGLE	INSTI.	TUTE H N SER	OF RES	EARCH 4129	_	æ	ж О в С	, Listí Stu	ngs o Stud Data Idy St	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008F Data Listing by Animal Study Start Date: 31-Jan-89	Signs Wi 8008F Anima( 1-Jan-89	thout A	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	PRINTED: 03-Oct-89 Page: 20 Sub-Acute/
Cage Ani	Cage Animal Sex/group Date and Time	mel Sex/group Date ber /Subgroup Date w	d dno		and Ent	Time	Study Date 1	Study Day/time Data Mas Taken			Clinical signs / Comments	s / Comme	nts	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
68 2	7 89A00025 F/ 3/1 24-Apr-89 11:29	F/ 3/	1 2,	24-Apr-89	89	11:29	14	14 / 14:39	:		inactive, slight	ht		1	
			Ä	24-Apr-89		11:35	15	15 / 08:15		0 T T T T T T T T T T T T T T T T T T T	inactive, slight tremors, slight	ht icht			
8 89	8 89400033	F/ 3/2		25-Apr-89 25-Apr-89		13:16 13:23		/ 09:19 / 10:19		9 nor	normal/no significant signs excess salivation, severe	ificant ion, sev	s i gns ere		
			Ä	25-Apr-89		13:36	-	1 14:44		7 T	tremors, slight tremors, slight strinting severe left eve	ָּ פַּ פַּ	3		
			~~	25-Apr-89 27-Jun-89		13:45	2 2	/ 07:35 / 10:31		4 × 0 × 4	normal/no significant signs vomiting	ificant	signs		
										e X	inactive, moderate excess salivation, severe	ion, sev	9 6		
			Ň	25-Apr-89		13:56	2	/ 14:01		٠ و - ر	inactive, slight	ht moder	, 6		
			ה ה	27 - Jun-89 26 - Jun-89		12:52 16:17	mm	/ 09:34 / 10:39		7 V V V	normed Tourist a term normed /no significant signs vositing	ificant	signs		
											inactive, moderate excess salivation, moderate hunched posture, moderate	ion, moder			
			0	01-May-89		13:58	M	/ 14:14		P hund	hunched posture, slight disoriented, slight	e, sligh light			
			<b>∾</b> ∾	27-Jun-89 25-Apr-89		12:54	44	/ 09:30 / 13:05		S squ	squinting, slight, left eye squinting, slight, left eye vomiting	slight, left slight, left	t eye t eye		
			000	01-HBY-89 01-HBY-89 01-HBY-89		14:21 14:26 14:32	4 10 10	/ 14:22 / 10:20 / 11:21			diarrhea squinting, alight, left eye normal/no significant signs excess salivation, severe squinting, slight, left eye vomiting inactive, moderate	slight, lef significant vation, sev slight, lef	left eye int signs severe left eye		

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PRESIDIO DI DOG/BEAGLE			03813	\$ YJ .	4129				S	Da itudy	Data Listing by Animal Study Start Date: 31-Jan-89		SUB-ACUTE/
Cage An	Animat	Animal Sex/group Date and Time Number /Subgroup Date was Entered	o dno	ate at	a En	Time	Study Day/time Oper Data was Taken #	Day/	time o	,	Clinical signs / Comments		
	· 63	9A00033 F/ 3/2 01-May-B9 14:4 01-May-B9 14:4 01-May-B9 14:5	. 000	01-May-89 01-May-89 01-May-89	0.00	14:41 14:46 14:56		5 / 14:11 6 / 08:58 6 / 10:34	•		squinting, slight, left eye normal/no significant signs excess salivation, severe hunched posture, moderate tremors, slight vomiting		
			0	01-May-89		15:06	•	6 / 14:39	: 39	0-	increased respiration depth, slight hunched posture, slight inactive, slight	l ight	
			00	01-May-89 01-May-89		15:12 15:16	~ ~	7 / 10:14	114	0 0	normal/no significant signs vomiting hunched posture, moderate		
			00	02-MBY-89 02-MBY-89		14:28	~ 80	114	14:47 10:07	• •	excessive thirst, severe hunched posture, slight hunched posture, slight inactive, slight		
			0	02-MRY-89		14:41	€0	8 / 11:10	: 10	•	excess salivation, slight vomiting inactive, moderate hunched posture, moderate		
			00	02-MBY-89 02-MBY-89		14:56 15:07	<b>60</b> O-	/ 15:13 / 09:34	:13 34	• •	incressed respiration depth, slight disoriented, slight excessive thirst, moderate excessive thirst, severe insctive, slight	i ight	
			o ö	02-May-89 02-May-89		15:20	٥	9 / 11:14	21	• •	hunched posture, slight  vomiting  inactive, moderate  hunched posture, moderate  increased respiration depth, a  disoriented, slight  tremors, moderate  disoriented, slight	s light	

			Ap	Appendix	dix	o)	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
LETTERMAN DIN OF RESPRESIDIO OF DOG/BEAGLE	N ARNY ES SUP OF SA	LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	E OF RESI ERV GP CO, CA 94	EARCH	_	a a	Data L	isting Da Study	gs of Clinical Signs Without Masses Study Number: 88008F ata Listing by Animal y Start Date: 31-Jan-89	PRINTED: 03-Oct-89 Page: 22 SUB-ACUTE/
4	inima!	Cage Animal Sex/group Date and Time # Number /Subgroup Date was Entered	Date ba	nd 8 Ent	Time	Study E	Study Day/time Oper Data was Taken w	ime Oper ken #	Clinical signs / Comments	1
8 89A	100033	8 89A00033 F/ 3/2 02-May-89 15:29	02-May-89 15:29	68	15:29	•	9 / 14:21	•	inactive, slight hunched posture, slight increased respiration deuth. slight	
			02-MBY-89 02-MBY-89		15:37	000	10 / 09:15 10 / 11:01	• •		
									hunched posture, moderate disoriented, moderate excess salivation, severe	
			02-MBY-89		15:50	10 /	10 / 14:42	٠	tremors, moderate inactive, slight hunched posture, slight	
			03-MBY-89		60:80	:	11 / 08:39	۰	tremors, slight hunched posture, slight increased respiration depth, slight	
			03-May-89		08:16	11 /	11 / 12:20	٥	excessive thirst, moderate vomiting inactive, moderate hunched posture, moderate	
			03-YBM-89		98:24	:	11 / 14:00	۰	increased respiration depth, moderate disoriented, moderate excess salivation, moderate vomiting	
			03-MBY-89		08:32 08:41	12 /	12 / 08:32 12 / 11:47	• •	inactive, slight hunched posture, moderate excessive thirst, moderate normal/no significant signs vomiting	
			03-May-89		09:05	12 /	12 / 14:41	•	inactive, moderate hunched posture, moderate increased respiration depth, slight disoriented, slight excessive thirst, moderate tremors, severe hunched posture, moderate	

HISTORIES
ANIMAL
INDIVIDUAL
(cont.):
Appendix D

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LETTERMAN	ES SUF	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	TE OF RE	SEARC	<b>.</b>	<b></b>	0 3	ata Li	stins S	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008f	9ns Wi 108F	thout	lasses	PRINTED: Page:	PRINTED: 03-Oct-89 Page: 23	8
DOG/BEAGLE	ָרָבָּיב לּיבּיב ליבּיב ליבּיב		, ca				•	,	Study	Study Start Date: 31-Jan-89	31-Jan-89				SUB-ACUTE/	UTE/
Cage Animat	nime t	Cage Animat Sex/group Date and Time	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	end ies En	Time	Stud) Data	udy Day/time ta was Taken	9 2	Oper	Clinical signs / Comments	Comme	ints				
9469	. K. 0000	B 89A00033 F/ 3/2 03-May-89 09:05 03-May-89 09:14 03-May-89 09:14	03 - H B Y - B 9 03 - H B Y - B 9 03 - H B Y - B 9	000	00:05 00:05 00:05 00:05	· (19 전 전 - 19 전 전 - 1	12 / 14:41 13 / 10:00 13 / 11:09	/ 14:41 / 10:00 / 11:09		disoriented, slight normal/no significant signs vomiting inactive, moderate hunched posture, moderate increased respiration depth, excess salivation, severe tramore moderate	Scant Scant Te Boder Bation On, sev	signs ate depth,	moderate			• •
			03-May-89		06:30	11	13 / 14:45	57:4	٥	inactive, slight hunched posture, slight	stigh	ų.				
			03-May-89 03-May-89		09:36 09:45	<del>2</del>	` `	09:00 10:30	<b>о</b> о	normal/no significant signs vomiting inactive, moderate hunched posture, moderate	icant ite Roder	signs ate				
										disoriented, slight excess salivation, severe tremors, slight	ght n, sev	ère				
			03-May-89 03-May-89		09:53 09:57	15	` `	14:58 07:25	00	hunched posture, slight normal/no significant signs	stigh	it signs				
9 89A00064	0000	F/ 3/3	10-May-89 10-May-89		13:19 13:23	<del>-</del> -		7:30 0:19	o o	normal/no significant signs vomiting excess salivation, severe	icant n, sev	int signs severe				
			10-May-89		13:31	-	/ 14:07	20:3	٥	inactive, slight inactive, slight edema, severe, right leg	ight (	<b>5</b>				
			10-May-89 10-May-89		13:34	~ ~	76	/ 06:47 / 10:11	00	edema, slight, right leg vomiting	ight i	9				
			10-May-89		13:41	2 r	` `	14:00	• •	excess salivation, severe inactive, anderate inactive, alight conselvo significant stans	in, sevite	severe signs				
			10-May-89		13:46	i 141	. `	85:60	•		;	moderate				

HISTORIES
ANIMAL
INDIVIDUAL
(cont.):
Appendix D

Study Day/time Oper  Study Day/time Oper  3 / 14:19 9 inactive, slight 4 / 10:07 9 vomating  excess salivation, moderate inactive, singet 5 / 10:17 9 vomating simificant signs 5 / 11:19 9 vomating simificant signs 5 / 11:19 9 vomating simificant signs 5 / 14:08 9 soft stool, slight 6 / 10:15 9 vomating excess salivation, moderate inactive, sight 6 / 10:15 9 vomating excessive thirst, moderate inactive, slight 7 / 10:30 9 vomiting excessive thirst, moderate inactive, slight 7 / 14:00 9 normal/no significant signs 6 / 10:15 9 vomiting excess salivation, severe inactive, moderate inactive, slight 6 / 10:30 9 vomiting excess salivation, severe inactive, slight excess salivation, severe inactive, moderate forests salivation, severe inactive, slight excess salivation, severe somating excess salivation, severe inactive, slight 9 / 07:35 9 vomiting excess salivation, severe inactive, slight 9 / 07:13 9 soft stool, slight 9 / 07:13 9 soft stool, slight 9 / 07:13 9 vomiting excess salivation, severe inactive, moderate	V 01	DIV OF RES SUI PRESIDIO OF SI DOG/BEAGLE	DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAW FRANCISCO, CA 94129 DOG/BEAGLE	SERV GP	neseanen GP CA 94129	. <u> </u>	6	; ; ;		S De tudy	Study Mumber: 88008F Data Listing by Animal dy Start Date: 31-lan-	ber: ng by	Study Start Deter 35-Jen-89 Study Starting by Anjae!			24 SUB-ACUTE/
1 14:19 9 inactive, slight 4 / 07:40 9 normal/no significant signs 5 / 10:07 9 vomiting 5 / 14:00 9 inactive, moderate 1 inactive, moderate 5 / 17:19 9 vomiting 5 / 11:19 9 vomiting 6 / 07:14:00 9 inactive, slight 6 / 07:14:00 9 soft stool, slight 6 / 07:15 9 soft stool, slight 6 / 10:15 9 soft stool, slight 6 / 10:15 9 normal/no significant signs 7 / 10:30 9 vomiting 6 / 14:12 9 normal/no significant signs 7 / 10:30 9 vomiting 6 / 14:20 9 normal/no significant signs 7 / 14:00 9 normal/no significant signs 8 / 10:30 9 vomiting 6 / 10:35 9 vomiting 7 / 14:00 9 normal/no significant signs 8 / 10:30 9 vomiting 8 / 10:30 9 vomiting 8 / 10:30 9 vomiting 9 vomiting 8 / 10:30 9 vomiting 8 / 10:30 9 vomiting 9 vom		Animel	Sex/group /Subgroup	o Dete	<b>P S S S S S S S S S S</b>	Time	•	Day/1			linical	# ign	s / Comments	1	, , , ,	· · · · · · · · · · · · · · · · · · ·
14:32 14:34 14:35 14:41 14:41 14:41 14:47 14:47 14:57 14:57 14:57 14:57 14:57 14:57 14:57 15:02 15:02 16:15 16:15 16:15 16:15 16:16 16:16 16:17 16:18 16	0	19A00064	F/ 3/3	10-11	y-89	14:28	, <b>m</b>	/ 14:	:		nactive	s i	sht	1		
14:34			•	10-M.	y-89	14:32		/ 07:	0.7		normal/n		nificant sign	81		
14:39 14:41 14:41 14:47 14:47 14:50 14:50 14:57 14:57 14:57 14:57 14:57 15:02 15:15 15:15 15:25 16:29 17:14:29 18:28 17:14:29 18:28 18:28 18:28 18:28 19:19:19				10-Me	y-89	14:34	4	/ 10:	20	•	omiting,					
14:39 14:41 14:41 14:41 14:41 14:47 14:50 14:50 14:50 14:50 14:57 14:59 15:02 15:07 17:14:00 15:28 15:28 16:28 16:38 16:										•	xcess s	Blive		·		
14:39 14:41 14:41 14:44 14:44 14:50 14:50 14:50 14:50 14:50 14:50 15:02 16:15 16:15 16:25 16:26 16:26 16:28											nactive		erate			
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14:44 5 7 11:19 9 14:50 6 7 07:14 9 14:50 6 7 07:14 9 14:55 6 7 10:15 9 14:57 6 7 10:15 9 14:59 7 7 07:10 9 15:07 7 7 14:00 9 15:15 8 7 07:35 9 15:25 8 7 14:29 9 15:28 9 7 07:13 9 15:28 9 7 07:13 9				10-Ma	y-89	14:41	~	/ 07:	17		normal/n		nificant sign	15		
14:57				10-M	y-89	14:44	S	/ 11:	16		omiting	_				
14:47 5 / 14:08 9 14:50 6 / 07:14 9 14:57 6 / 16:12 9 14:59 7 / 07:10 9 15:07 7 / 14:00 9 15:25 8 / 14:29 9 15:28 9 / 07:13 9 15:28 9 / 07:13 9										•	xcess s	ativa	tion, moderat	0		
14:47 5 / 14:08 9 soft stool 14:56 6 / 07:14 9 soft stool 14:56 6 / 10:15 9 vomiting excess sal inactive, excess sal 14:57 6 / 14:12 9 normal/no 14:59 7 / 07:10 9 soft stool 15:02 7 / 10:30 9 vomiting excess sal inactive,											nactive	s	ght			
14:50 6 / 07:14 9 soft stool 14:54 6 / 10:15 9 vomiting excess salinactive, excessive 14:57 6 / 14:12 9 normal/no 14:59 7 / 07:10 9 soft stool 15:02 7 / 10:30 9 vomiting excess salinactive, inactive, inactive, inactive, inactive, inactive,				10-M	V-89	14:47	~	14:	80		oft sto	ol, s	Light			
14:54 6 / 10:15 9 vomiting excess salt inactive, inactive, inactive, excessive 14:59 7 / 07:10 9 soft stool 15:02 7 / 10:30 9 vomiting excessive, excessiv				10-Me	V-89	14:50		/ 07:	14		oft sto	o( , s	Light			
14:57 6 / 14:12 9 normat/no 14:59 7 / 07:10 9 soft stool 15:02 7 / 10:30 9 vomiting excessive for 15:15 8 / 07:35 9 normat/no 15:20 8 / 10:08 9 vomiting excessive for 15:25 8 / 14:29 9 excess sall inactive, ina				10-Ha	4-89	14:54		/ 10:	-15		omiting,		1			
14:57 6 / 14:12 9 normat/no 14:59 7 / 07:10 9 soft stool 15:02 7 / 10:30 9 vomiting excessive inactive, excessive fils:15 8 / 07:35 9 normat/no 15:20 8 / 10:08 9 vomiting excess salt inactive, inact										•	XCESS 8	Bliva	tion, moderat	eu .		
14:57 6 / 14:12 9 normal/no 14:59 7 / 07:10 9 soft stool 15:02 7 / 10:30 9 voniting excess salinactive, excess ive 15:15 8 / 07:35 9 normal/no 15:20 8 / 10:08 9 voniting excess salinactive, excess salinactive, 15:25 8 / 14:29 9 excess salinactive, excess salinactive, 15:28 9 / 07:13 9 soft stool 15:33 9 / 10:11 9 voniting excess salinactive, excess salinactive, excess salinactive, 15:28 9 / 07:13 9 soft stool 15:33 9 / 10:11 9 voniting excess salinactive,											nactive	. sti				
14:57 6 / 14:12 9 normal/no 14:59 7 / 07:10 9 soft stool 15:02 7 / 10:30 9 vomiting excess sal inactive, excessive 15:20 8 / 10:08 9 vomiting excess sal inactive, excess sal inactive, excess sal 15:25 8 / 14:29 9 excess sal inactive, 15:28 9 / 07:13 9 soft stool 15:33 9 / 10:11 9 vomiting excess sal											*xcessiv		rst, moderate	4		
14:59 7 / 07:10 9 soft stool, slight 15:02 7 / 10:30 9 vomiting excess salivation, sev inactive, slight excessive thirst, mode 15:15 8 / 07:35 9 normal/no significant 15:20 8 / 10:08 9 vomiting excess salivation, sev 15:25 8 / 14:29 9 excess salivation, mode 15:26 9 / 07:13 9 soft stool, slight 15:38 9 / 10:11 9 vomiting excess salivation, sev inactive, moderate inactive, moderate				10-Ma	y-89	14:57		/ 14:	12		normat/n		nificant sign	St		
15:02 7 / 10:30 9 vomiting excess salivation, sev inactive, slight excessive thirst, mode 15:07 7 / 14:00 9 normal/no significant 15:15 8 / 07:35 9 normal/no significant 15:20 8 / 10:08 9 vomiting excess salivation, sev inactive, moderate excess salivation, moderate excess salivation, moderate inactive, slight 15:28 9 / 07:13 9 soft stool, slight 15:33 9 / 10:11 9 vomiting excess salivation, sev inactive, moderate				10-M	V-89	14:59		/ 07:	10		oft sto	ol, s	l ight			
inactive, slight excessive thirst, mode 15:07 7 / 14:00 9 normal/no significant 15:15 8 / 07:35 9 normal/no significant 15:20 8 / 10:08 9 vomiting excess salivation, sev inactive, moderate excessive thirst, seve 15:25 8 / 14:29 9 excess salivation, mod inactive, slight 15:26 9 / 07:13 9 soft stool, slight 15:33 9 / 10:11 9 vomiting excess salivation, sev inactive, moderate				10-Me	y-89	15:02		/ 10:	30		omiting					
inactive, slight excessive thirst, mode 15:07 7 / 14:00 9 normal/no significant 15:15 8 / 07:35 9 vomiting excess salivation, sev inactive, moderate excessive thirst, seve 15:25 8 / 14:29 9 excess salivation, mod inactive, slight 15:28 9 / 07:13 9 soft stool, slight 15:33 9 / 10:11 9 vomiting excess salivation, sev inactive, moderate										-	XCESS B	al iva	tion, severe			
15:07 7 / 14:00 9 normal/no significant 15:15 8 / 07:35 9 normal/no significant 15:20 8 / 10:08 9 vomiting excess salivation, sevences salivation, sevences salivation, sevences salivation, sevences salivation, sevences salivation, moderate excessive thirst, sevences salivation, moderate sevences salivation, sevences saliva											nactive		ght			
15:07 7 / 14:00 9 normal/no significant 15:15 8 / 07:35 9 normal/no significant 15:20 8 / 10:08 9 vomiting excess salivation, sevences inactive, moderate excessive thirst, sevences inactive, slight 15:25 8 / 14:29 9 excess salivation, moderate 15:28 9 / 07:13 9 soft stool, slight 15:33 9 / 10:11 9 vomiting excess salivation, sevences salivation, sevences										•	XCESSIV		rst, moderate	4.		
15:20 8 / 07:35 9 normal/no significant 15:20 8 / 10:08 9 vomiting excess salivation, seventing inactive, moderate excessive thirst, seventing: 8 / 14:29 9 excess salivation, moderate inactive, slight 15:28 9 / 10:11 9 vomiting excess salivation, seventing excess salivation, s				10-Ma	y-89	15:07	7	/ 14:	00		normal/n		nificant sign	<u>.</u>		
15:20 8 / 10:08 9 vomiting excess salivation, severe inactive, moderate excessive thirst, severe 15:25 8 / 14:29 9 excess salivation, moderat inactive, slight 15:28 9 / 07:13 9 soft stool, slight 15:33 9 / 10:11 9 vomiting excess salivation, severe inactive, moderate				10-Me	y-89	15:15	€0	/ 07:	35		normal/n		nificant sign	38		
excess salivation, severe inactive, moderate excessive thirst, severe excessive thirst, severe inactive, slight inactive, slight 15:28 9 / 07:13 9 soft stool, slight 15:33 9 / 10:11 9 vomiting excess salivation, severe inactive, moderate				10-Ma	y-89	15:20	∞	/ 10:	90		<b>comiting</b>					
inactive, moderate excessive thist, severe excessive thist, severe inactive, sight inactive, slight 15:28 9 / 07:13 9 soft stool, slight severe inactive, moderate inactive, moderate										_	XCESS S	al iva				
15:25 8 / 14:29 9 excess salivation, moderat inactive, slight 15:26 9 / 07:13 9 soft stool, slight 15:33 9 / 10:11 9 vomiting excess salivation, severe inactive, moderate											nactive	pom '	erate			
15:25 8 / 14:29 9 excess salivation, moderat inactive, slight 15:26 9 / 07:13 9 soft stool, slight 15:33 9 / 10:11 9 vomiting excess salivation, severe inactive, moderate											xcessiv	e thi	rst, severe			
15:28 9 / 07:13 9 15:33 9 / 10:11 9				10-Ma	y-89	15:25		/ 14:	58		XCess s	at iva	tion, moderat	•.		
15:28 9 / 07:13 9 15:33 9 / 10:11 9											nactive	, s(	ght			
15:33 9.7.10:11 9				10-M	y-89		<b>o</b>	. 07	<u>.</u>		oft sta	01, 5	Light			
excess salivation, severe inactive, moderate				10-Ne	y-89		٥	, 10:			/omiting					
DBCTIVe, BODELBTE								•		J.	XCESS S	al iva				
											Dective	ĎOE.	erate			

			<b>«</b>	Appendix	dix	۵	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
LETTER DIV OI	RMAN ARMI	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	E OF RE	SEARC	<b>x</b>	æ	W Data L	istin	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008F	PRINTED: 03-0ct-89 Page: 25
PRESIDIO O DOG/BEAGLE	DIO OF ST EAGLE	PRESIDIO OF SAM FRANCISCO, CA 94129 Dog/Beagle	CO, CA	94129	,	1		Stud	Date Listing by Animal Study Start Date: 31-Jan-89	SUB-ACUTE/
0 4	Animal	Cage Animal Sex/group Date and Time	Det.	and ins En	Time	Study Date	Study Day/time Oper Data was Taken #	Oper	Clinical signs / Comments	
•	9 89A00064 F/ 3/3	89A00064 F/ 3/3 10-Nay-89 15:38 11-Nay-89 12:08 11-Nay-89 12:11	11-XBY-89 11-XBY-89 11-XBY-89	0.00	15:38 12:08 12:11	• <u>0</u> 0	9 / 14:05 10 / 07:09 10 / 10:19	000		
			11-May-89		12:15	10	10 / 14:06	٥	inactive, slight excessive thirst, moderate hunched posture, slight	
			11-May-89 11-May-89		12:18 12:21	===	11 / 09:00 11 / 10:12	<b>~ ~</b>	excessive thirst, moderate excessive thirst, moderate vomiting	
									excess salivation, severe inactive, moderate hunched posture, slight	
			11-May-89		12:25	= :	11 / 14:30		excessive thirst, moderate inactive, slight hunched posture, slight	
			11-May-89 11-May-89		12:28 12:33	12 12	12 / 07:00 12 / 10:13	<b>&gt;</b>	soft stool, slight Vomiting excess smlivation, severe inactive, moderate	
			11-May-89 12:36	-89	12:36	12	12 / 14:16	٥	hunched posture, slight inective, slight discriented slight	
			11-May-89		12:39	5 5	13 / 07:15	o o	inactive, alight excessive thirst, slight soft stool, slight	
						2		•	excess salivation, moderate inactive, moderate excessive thirst, moderate hunched posture, slight	

			App	Appendix	<u>a</u>	(cont )		INDIVIDUAL ANIMAL HISTORIES	
LETTER! DIV OF	RES SUP	LETTERMAN ARMY INSTITUTE OF R.	E OF RESEARCH	ARCH 130	ã.	W Data L	isting	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008F	PRINTED: 03-0ct-89 Page: 26
DOG/BEAGLE	IO OF ST	SCORVAGE RA	PRESIDIO OF SAM FRANCISCO, LA VAICY DOG/BEAGLE	Ż.				Study Start Date: 31-Jan-89	SUB-ACUTE/
	Animal	Sex/group /Subgroup	Cage Animal Sex/group Date and Time	d Time Entered	Study	· >	Oper		
	79000¥6	9 89400064 F/ 3/3	89A00064 F/ 3/3 11-Nav-89	9 12:46	5	/ 15:04	:	inactive, slight	
,			11-May-89		7	14 / 07 42	•		
			11-May-89		14	/ 09.37		inactive, moderate	
			•					vomiting	
								disoriented, moderate	
			11-May-89	9 14:16	14	14 / 15:00	٥	pacing, moderate	
			•					disoriented, slight	
			11-May-89	9 14:18	15	15 / 07:09	•	soft stool, moderate	
			•					pacing, slight	
10 8	10 89A00020	F/ 4/1	12-Apr-89	9 13:20	_	/ 09:17	•	normal/no significant signs	
			12-Apr-89	9 13:46	-	10:19		disoriented, severe	
			•					tremors, moderate	
								excess salivation, slight	
								vomiting	
			12-Apr-89	00:51 6	-	/ 14:20	•		
			•					inactive, slight	
			13-Apr-8	9 10:14	2	/ 10:28		significant	
			13-Apr-89		7	/ 11:29	•		
			13-Apr-89		2	/ 14:37		normal/no significant signs	
			13-ADF-89		ĸ			normal/no significant signs	
			13-Apr-89		m	65:60 /		vomiting	
			•					disoriented, slight	
								inactive, slight	
			13-Apr-89		M	/ 14:11		8	
			13-Apr-89		4	/ 00:00	•	normal/no significant signs	
			13-Apr-8			/ 10:01	•	tremors, slight	
			•					<b>.</b>	
			13-Apr-89		7	/ 14:05			
			13-Apr-89		₹	/ 12:35	٥.		
			13-Apr-89			/ 12:40		S	
			13-Apr-89			/ 14:10			
			13-Apr-89			7 09:47			
			13-Apr-89		•	/ 10:51		significant	
			13-Apr-89	9 12:46	9	/ 14:06	•	significant si	
			13-Apr-89		7	/ 00:53		normal/no cignificant signs	

				<	Appendi	X T D U	<u> </u>	(00110.)		INDIVIDUAL ANIMAL MISTORIES	
DIV (PRES)	LETTERMAN ARMY INSTITUTE OF RESEARCI DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	IY INST	ITUTE TH SE NCISC	BV 6P	RESEARCH IP IA 94129	<b>.</b>	α e	w Data 1	Study		PRINTED: 03-Oct-89 Page: 27 SUB-ACUTE/
C 0 0	Cage Animal Sex/group Date and Tim	Animal Sex/group Date and Time Number /Subgroup Date was Entered	roup	Date Date	and Ti	Time	Study Data M	Study Day/time Data was Taken	; 0	Clinical signs / Comments	
10	10 89A00020 F/ 4/1 13-Apr-89 12:5	7 / J	: =	13-Apr-89	68	12:53	7	7 / 10:12	•	excess salivation, slight	
				13-Apr-89	- 89	12:59	~	14:46		normal/no significant signs	
				13-Apr-89	60-	13:04	<b>4</b> 0 <b>4</b> 0	/ 09:52	<b>о</b> о	normal/no significant signs	
				2	<b>;</b>	?	,		•	excessive thirst, severe	
				13-Apr-89	89	13:20	<b>4</b> 0	14:40	۰	disoriented, slight	
					9	36.24	c	00.00	d	hunched posture, slight	
				13-Apr-89	) (A)	13:31	• •	7 10:51	• 0•	disoriented, stipht	
				i.	;		ı			excessive thirst, severe	
				17-Apr-89		08:12	•	/ 15:08	•	normal/no significant signs	
				17-Apr-89		08:41	10		о-	normal/no significant signs	
				17-Apr-89		08:52	10	/ 10:54	•	disoriented, moderate	
										excessive thirst, moderate	
										hunched posture, slight	
				17-Apr-89		09:02	2	10 / 14:28	۰	disoriented, slight	
										tremors, slight	
				18-Apr-89	-89	13:37	=	00:60 / 1	٥	normal/no significant signs	
				18-Apr	-89	13:41	=	/ 10:38		vomiting	
										tresors, soderate	
				;	,		;		•	disoriented, stignt	
				16-Apr-89	, o.	9:48	Ξ	11 / 14:35	>	(Themoto, moderate	
				18-40		13.53		-	•	normal/no significant signs	
				18-Apr-89		14:01	2 2		• •	,	
										tresors, moderate	
										excessive thirst, moderate	
				19-Apr-89		13:24	12		<u>Ф</u>		
				19-Apr-89		13:30			•	normal/no significant signs	
				19-Apr-89		13:46	-	/ 11:30	Φ.	vomiting	
										tremors, moderate	
						•	,		(	excessive thirst, moderate	
				19-Apr-89		15:59	<u>.</u>	\		normal/no significant signs	
				24-Apr-89		11:14	2:	/ 09:30	<b>o</b> (	normal/no stantficant signs	
				24 - ADI		11:51	=	\		DOCEST/DO SIGNITICENT SIGNS	

			Appe	Appendix	<u>a</u>	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
LETTERMAN ARMY INSTITUTE OF R. DIV OF RES SUPP, PATH SERV GP	ARHY S SUP	INSTITU P, PATH	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	3	œ	w Data Lis	stings St	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008f	PRINTED: 03-0ct-89 Page: 28
PRESIDIO O DOG/BEAGLE	OF SA	N FRANCI	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE		,		Study	Data Listing by Animal Study Start Date: 31-Jan-89	SUB-ACUTE/
Cage Animal Sex/group Date	Animat	Sex/grou /Subgrou	=		Study	Day/time as Taken	1		• ! •
10 89A00020	A00020	F/ 4/1	F/ 4/1 24-Apr-89	11:29	**	14:40			
			24-Apr-89	11:35	15	. ~		normal/no significant signs	
11 89A00039	0039	11 4/5	25-Apr-89	13:16	-	_	•	=	
			25-Apr-89	13:54	-	/ 10:30		disoriented, slight	
			25-Apr-80	13:37	-	74:45	•	vositing discriented sticht	
					•	77.71			
			25-Apr-89		~	7 07:45		normal/no significant signs	
			25-Apr-89	13:57	~		٥		
			•					vomiting	
							_	tremors, slight	
			26- Jun - 89	11:44	~	/ 14:02		tremors, slight	
			25-Apr-89	14:12	m	/ 09:34	o.	normal/no significant signs	
			27 - Jun - 89	14:57	~	/ 10:43		disoriented, moderate	
							_	inactive, slight	
							_	hunched posture, slight	
			01-May-89	13:58	*	/ 14:15		normal/no significant signs	
			25-Apr-89	14:35	7				
			01-May-89	14:15	•	/ 13:07		normal/no significant signs	
			01-Hay-89	14:21	*		•	normal/no significant signs	
			01-May-89	14:26	~			normal/no significant signs	
			01-Hay-89	14:33	•	/ 11:00		vositing	
			01-May-89	14:41	<b>.</b>	/ 14:11	_	normal/no significant signs	
			01-May-89	14:46	•	00:60 /		normal/no significant signs	
			01-May-89	14:57	•	/ 10:34		disoriented, slight	
								vo≡iting .	
							_	inactive, slight	
							_	nunched posture, slight	
			01-May-89	15:07	•	14:40		inactive, slight	
			01-May-89	15:12	~	/ 10:21	۰	normal/no significant signs	
			01-May-89	15:18	7				
			•					vomiting	
							_	tremors, moderate	
								hunched posture, slight	
			02-May-89	14:30	~	14:48	٠ •	lisoriented, slight	
			02-May-89	14:38	<b>40</b>	/ 10:12		normal/no significant signs	

HISTORIES
ANIMAL
INDIVIDUAL
(cont.):
Appendix D

			Api	Appendix	D (cont.)		INDIVIDUAL ANIMAL HISTORIES	
LETTE DIV C	ERMAN ARM DF RES SUI	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP DASCIOLO OF KAN FRANCISCO FR 04120	E OF RESE	ARCH	Raw Data	Listin	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008f	PRINTED: 03-0ct-89 Page: 29
1/900	DOG/BEAGLE		*	<u> </u>	,	Stud	Study Start Date: 31-Jan-89	SUB-ACUTE/
	Animal	. 0	Date and	d Time Entered	Study Day/time Oper Date was Taken #	e Oper	,	
=	11 89A00039 F/ 4/2	F/ 4/2	F/ 4/2 02-May-89	02-May-89 14:49	8 / 11:13	•	disoriented, slight	
•							vomiting	
							tremors, moderate	
							inactive, slight	
							hunched posture, slight	
			02-May-89	9 15:02	8 / 15:14	Φ.	disoriented, slight	
							panting, moderate	
			02-May-89	9 15:07	9 / 09:35	•	normal/no significant signs	
			02-May-89		9 / 11:14		disoriented, moderate	
			•				vomiting	
							tremors, moderate	
							hunched posture, moderate	
			02-May-89	9 15:30	9 / 14:23	σ.	disoriented, moderate	
							inactive, slight	
			02-May-8		10 / 09:15	0	inactive, slight	
			02-May-89	9 15:44	10 / 11:00		inactive, slight	
			•				disoriented, moderate	
							vomiting	
							tremors, slight	
							hunched posture, slight	
			02-May-89	9 15:51	10 / 14:42	•	inactive, slight	
							disoriented, slight	
			03-May-89	9 08:10	11 / 08:39	•	panting, moderate	
			03-May-8	08:	11 / 12:19		panting, moderate	
							tremors, moderate	
							disoriented, moderate	
			03-May-89	9 08:25	11 / 14:00		disoriented, slight	
			03-May-89		12 / 08:32	•	tremors, slight	
			03-May-89		`		tremors, moderate	
							disoriented, slight	
							vomiting	
					•			
			03-May-89	9 09:05	12 / 14:41	<b>o</b> .	hunched posture, slight	
			03-May-89		13 / 10:00		tresors, slight	

HISTORIES
ANIMAL
INDIVIDUAL
cont.):
<u>а</u>
Appendix

			5	wppend.	HOLK	2	()		INDIVIDUAL ANIMAL AISTORIES		
LETTI DIV (	ERMAN ARMY DF RES SUP	LETTERMAN ARMY INSTITUTE OF R. DIV OF RES SUPP, PATH SERV GP	OF RE	RESEARCH		œ	BM Data	Listin	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008F	PRINTED: Page:	03 · 0ct · 89 30
006/1	DOG/BEAGLE		۲, د	4 1 5		,		Stud	Study Start Date: 31-Jan-89		SUB-ACUTE/
0 % 0 %	Animel	Sex/group /Subgroup	Date and Time Date was Entered	and ine Er	Time	Study Data	Study Day/time Data was Taken		/ Comments	1	
=	89A00039	£/ 4/2	03-May-89 09:1	i	09:18	13	3 / 11:09	•	moderate ted, moderate	1 6 1 1 1	+ + + + + + + + + +
			24	9	12.00	Į	77.71	•	vomiting hunched posture, slight discrimited elight		
				<b>`</b>		?			Vomiting Continue Clinks		
			03-May		98:60	7	\	6	tremors, slight		
			03-May-89		97:60	16	/ 10:33		disoriented, slight		
			;	•		:	•		hunched posture, slight		
			03-May-89		09:54	÷ ÷	/ 14:58	<b>&gt;</b> 0	panting, moderate		
12	89A00071	5/5/3	10-May		08:07	· -	. \		normal/no significant signs		
!		•	10-May-89		08:12	_					
			10-May		08:15	-	/ 14:04				
			10-May-89		08:17	7	/ 07:10	6	normal/no significant signs		
			10-May		08:21	7	/ 10:31		vomiting		
			10-May-89	-89	08:26	2 1	/ 14:22				
			10-May-89	) o	08:28	7 M	7 07:43		normel/no significent signs		
			10-May-80	8	08.30	, ~	14-05		normal/no significant signs		
			10-May-89		08:40	7	/ 07:15		significant		
			10-May-89		95:80	4	/ 12:00		excessive thirst, moderate		
			10-May-89		08:49	4	/ 14:23		normal/no significant signs		
			10-May-89		08:51	2	/ 07:19		normal/no significant signs		
			10-May-89		08:54	~	/ 10:53		thirst, slig		
			10-MBY-89		08:56	•	/ 14:27				
			10-May-89	-89	08:59	•	/ 07:12		normal/no significant signs		
			10-May-89	68	09:01	• `	/ 10:53		disoriented, slight		
			10-Mey-89	) 	90:00	۰ ۵	7 14:15	<b>&gt;</b> 0	Ayperactive, siight		
				.07	07:40		i				

			Ap	Appendix	D (c	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
LETTE	RMAN ARM	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF BES SIPP DATH SERV SP	TE OF RESI	EARCH	ж 4	, Data Lis	tings St	Raw Data Listings of Clinical Signs Without Masses Study Musher: \$8008F	PRINTED: 03-0ct-89
PRESIDIO O DOG/BEAGLE	DIO OF SI	PRESIDIO OF SAM FRANCISCO, CA 94129 DOG/BEAGLE	\$00, CA 9.			v	Dat	Date Listing by Animal Study Start Date: 31-Jan-89	SUB-ACUTE/
C	Cage Animal		Date en	nd Time	Study D		per.		* * * * * * * * * * * * * * * * * * *
	Musber	/Subgroup	Date Mes	/Subgroup Data was Entered	Data wa	Data was Taken	* :	Clinical signs / Comments	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
12.1	89A00071	•	•	۰	1 /	/ 10:34			
			10-May-89				č O	normal/no significant signs	
			10-May-89	89 09:21	8 /			soft stool, moderate	
			10-May-89		<b>e</b> 0	10:30	-	Vomiting.	
							~ ₹	JOBOTIVE, STUDIT	
			10.May-80	80 00.42	œ	14.10		Coordinate, structure and stru	
			10-May-89		•		0		
			10-May-89		. 6		-	disoriented, stight	
							_		
			10-May-89	66 09:39	6	7 14:11		hyperactive, slight	
			10-May-89		10		ō.		
			10-May-89		10 /	10:29	-	vomiting	
			•				_	hyperactive, moderate	
			10-May-89		10 /	14:30	ě O	hyperactive, slight	
			10-May-89		11				
							Š	soft stool, slight	
			10-May-89		1	10:41		hyperactive, moderate	
			10 May-89	_	11 /	14:11	<u>د</u>	normal/no significant signs	
			10-May-89		12 /	07:25	_	normal/no significant signs	
			10-May-89	89 10:03	12 /	7 10:45		inactive, slight	
							Ú	excessive thirst, slight	
			10-Mey-89		12 /	15:15	_	normal/no significant signs	
			10-May-89		13 /	75:70	ă 0	soft stool, moderate	
			10-May-89	69 10:13	13 /	10:03		hyperactive, moderate	
							ŭ	excessive thirst, slight	
			10-May-89		13 /	15:15			
			10-May-89		14 /	, 07:12		normal/no significant signs	
			10-May-89		14 /	09:53	_	hyperactive, moderate	
			10-May-89		14 /	14:52		hyperactive, slight	
			10-May-89		15 /	71:70			
13	13 89A00027	f/ 5/1	12-Apr-89	_	-	09:22	č	normal/no significant signs	
			12-Apr-89	89 13:48	-	, 10:24		staggering, slight	
							o .		
							•		

### APPLY TOTAL OF SECRETARY  PRESSURE AND PARTS SERVICED  PRESSURE AND PA				Aį	pper	Appendix	D (CC	(cont.):		INDIVIDUAL ANIMAL HISTORIES	
######################################	LETTER DIV OF PRESID DOG/BE	MAN ARMI RES SUF 10 OF SA	T INSTITUTE PP, PATH SI IN FRANCISC	E OF RESERV GP	SEARC 94129	<b>z</b>	G.	Data Lit	sting Study		0 %
13-Apr-89   14:20   1   14:21   9   disoriented, moderate   13-Apr-89   10:24   2   11:35   9   normal/no significant   13-Apr-89   10:24   2   11:35   9   normal/no significant   13-Apr-89   10:35   3   10:01   9   vomitring   disoriented, moderate   13-Apr-89   11:50   4   10:13   9   normal/no significant   13-Apr-89   11:50   4   10:21   9   vomitring   disoriented, moderate   13-Apr-89   12:10   4   14:10   9   normal/no significant   13-Apr-89   12:10   4   14:06   9   disoriented, significant   13-Apr-89   12:10   4   14:06   9   disoriented, significant   13-Apr-89   12:29   5   12:43   9   normal/no significant   13-Apr-89   12:29   5   12:43   9   normal/no significant   13-Apr-89   12:29   5   14:12   9   normal/no significant   13-Apr-89   12:46   6   10:52   9   excess salivation, sli   13-Apr-89   12:46   6   10:52   9   disoriented, moderate   13-Apr-89   13:00   7   14:47   9   disoriented, moderate   13-Apr-89   13:05   8   09:58   9   normal/no significant   13-Apr-89   13:05   8   09:58   9   normal/no significant   13-Apr-89   13:05   8   10:59   9   disoriented, slight   13-Apr-89   13:21   8   10:59   9   disoriented, slight   13-Apr-89   13:25   9   10:54   9   disoriented, slight   13-Apr-89   13:25   9   10:54   9   disoriented, slight   13-Apr-89   13:25   9   10:55	,	Animal	Sex/group /Subgroup	Oate Oate	and se En	Time	Study De		oper #		
10:15 2 / 10:34 9 normal/no significant 10:24 2 / 11:35 9 normal/no significant 10:39 3 / 07:57 9 normal/no significant 10:55 3 / 10:01 9 vomiting disoriented, moderate 11:06 3 / 14:13 9 normal/no significant 11:52 4 / 10:21 9 vomiting disoriented, moderate 11:52 4 / 10:21 9 vomiting disoriented, moderate 12:10 4 / 14:06 9 disoriented, slight 12:29 5 / 12:43 9 normal/no significant 12:29 5 / 12:43 9 normal/no significant 12:45 6 / 10:52 9 excess salivation, sli 12:45 6 / 10:54 9 normal/no significant 12:54 7 / 10:16 9 disoriented, moderate 13:05 8 / 09:58 9 normal/no significant 13:05 8 / 09:58 9 normal/no significant 13:21 8 / 14:47 9 disoriented, moderate 13:21 8 / 14:41 9 disoriented, slight 13:21 8 / 14:41 9 disoriented, slight 13:21 8 / 14:41 9 disoriented, slight 13:21 9 / 10:54 9 disoriented, slight 13:21 9 / 10:54 9 disoriented, slight 13:21 9 / 10:54 9 disoriented, slight 13:31 9 / 10:54 9 fremore, moderate excess salivation, moderate excess saliva	13 8	19A00027	F/ 5/1	12-Apr	-89	14:00	1 1	14:21	. •	disoriented, soderate tresors, slight	
10:24 2 / 11:35 9 normal/no significant 10:39 3 / 10:11 9 vomiting disoriented, moderate 11:06 3 / 14:13 9 normal/no significant 11:52 4 / 10:21 9 vomiting disoriented, moderate remores, slight 12:10 4 / 14:06 9 disoriented, moderate remores, slight 12:24 5 / 12:43 9 normal/no significant 12:29 5 / 12:43 9 normal/no significant 12:29 5 / 14:12 9 normal/no significant 12:46 6 / 14:07 9 normal/no significant 12:46 6 / 14:07 9 normal/no significant 12:46 6 / 14:07 9 normal/no significant 12:54 7 / 10:16 9 disoriented, moderate 13:05 8 / 09:53 9 normal/no significant 13:14 8 / 14:47 9 disoriented, moderate 13:21 8 / 14:41 9 disoriented, slight 13:21 8 / 14:41 9 disoriented, slight 13:21 8 / 10:59 9 disoriented, slight 13:21 8 / 10:59 9 disoriented, slight 13:21 8 / 10:54 9 disoriented, slight 13:31 9 / 10:54 9 disoriented slight 13:31 9 / 10:54 9 / 10:54 9 disoriented slight 13:31 9 / 10:54 9 disoriented slight				13-Apr.		10:15	7 7	10:34	۰ ر	significant	
10:39 3 / 07:57 9 normal/no significant 10:55 3 / 10:01 9 vomiting disoriented, moderate 11:06 3 / 14:13 9 normal/no significant 11:52 4 / 09:20 9 vomiting disoriented, moderate tremors, slight 12:10 4 / 14:06 9 disoriented, moderate tremors, slight 12:24 5 / 12:43 9 normal/no significant 12:29 5 / 14:12 9 normal/no significant 12:29 5 / 14:07 9 normal/no significant 12:40 6 / 10:52 9 excess salivation, slight 12:54 7 / 10:16 9 disoriented, moderate tremors, slight excess salivation, slight 13:00 7 / 14:47 9 disoriented, moderate tremors, moderate 13:21 8 / 14:41 9 disoriented, slight tremors, severe excess salivation, moderate 13:31 9 / 10:54 9 disoriented, slight tremors, severe excess salivation, moderate tremors, severe				13-Apr.		10:24		11:35 14:37	o o	significant significant	
10:55 3 / 10:01 9 vomiting disoriented, moderate 11:06 3 / 14:13 9 normal/no significant 11:52 4 / 09:20 9 vomiting disoriented, moderate 12:00 4 / 10:21 9 vomiting disoriented, moderate 12:10 4 / 14:06 9 disoriented, alight 12:24 5 / 12:43 9 normal/no significant 12:25 5 / 14:12 9 normal/no significant 12:40 6 / 10:52 9 excess salivation, sli 12:49 7 / 08:53 9 normal/no significant 12:54 7 / 10:16 9 disoriented, moderate 13:05 8 / 09:58 9 normal/no significant 13:05 8 / 09:58 9 normal/no significant 13:21 8 / 14:47 9 disoriented, moderate 13:25 9 / 09:58 9 normal/no significant 13:21 8 / 14:41 9 disoriented, slight 13:21 9 / 10:59 9 disoriented, slight 13:25 9 / 09:53 9 normal/no significant 13:31 9 / 10:54 9 tremors, moderate 13:31 9 / 10:54 9 tremors, severe 13:31 9 / 10:54 9 tremors, severe 13:31 9 / 10:54 9 tremors, severe				13-Apr		10:39		75:70	٥	significant	
11:06 3 / 14:13 9 normal/no significant 11:52 4 / 09:20 9 normal/no significant 12:00 4 / 10:21 9 vomiting disoriented, moderate remors, slight 12:10 4 / 14:06 9 disoriented, moderate 12:24 5 / 12:43 9 normal/no significant 12:25 5 / 12:43 9 normal/no significant 12:25 5 / 14:12 9 normal/no significant 12:26 6 / 14:07 9 normal/no significant 12:26 6 / 14:07 9 normal/no significant 12:26 7 / 10:16 9 disoriented, moderate 13:05 8 / 09:58 9 normal/no significant 12:54 7 / 10:16 9 disoriented, moderate 13:05 8 / 09:58 9 normal/no significant 13:21 8 / 14:47 9 disoriented, slight tremors, moderate 13:21 8 / 14:41 9 disoriented, slight tremors, moderate 13:25 9 / 09:53 9 normal/no significant 13:21 8 / 14:41 9 disoriented, slight tremors, severe excess salivation, moderate 13:31 9 / 10:54 9 disoriented, slight tremors, severe				13-Apr		10:55	3 /	10:01	<u>о</u>	Vomiting Aisoniaged appearant	
11:52				13-Apr.		11:06	3 /	14:13	•		
12:00 4 / 10:21 9 vomiting  disoriented moderate  fremors, slight  fremors, slight  fremors, slight  12:10 4 / 14:06 9 disoriented, moderate  12:24 5 / 12:43 9 normal/no significant  12:25 5 / 14:12 9 normal/no significant  12:25 6 / 10:52 9 excess salivation, sli  12:40 6 / 14:07 9 normal/no significant  12:54 7 / 10:16 9 disoriented, moderate  fremors, moderate  13:05 8 / 09:58 9 disoriented, moderate  13:05 8 / 10:59 9 disoriented, slight  13:21 8 / 14:47 9 disoriented, slight  fremors, moderate  fremors, severe  fremors, severe  excess salivation, moderate  fremors, severe  fremors, severe  fremors, severe  excess salivation, moderate				13-Apr.		11:52	•	09:50	٥	significant	
disoriented, moderate tremors, slight 12:10 4 / 14:06 9 disoriented, moderate tremors, slight 12:24 5 / 11:40 9 normal/no significant 12:24 5 / 12:43 9 normal/no significant 12:42 6 / 10:52 9 excess salivation, sli 12:49 7 / 10:52 9 normal/no significant 12:49 7 / 10:16 9 normal/no significant 12:54 7 / 10:16 9 disoriented, moderate tremors, maderate tremors, moderate tremors, moderate tremors, moderate tremors, moderate tremors, moderate tremors, severe excess salivation, moderate tremors, severe excess salivation, moderate tremors, severe				13-Apr		12:00	1 1	10:21	۰	•	
tremors, slight 12:10 4 / 14:06 9 disoriented, slight 12:18 5 / 12:43 9 normal/no significant 12:29 5 / 14:12 9 normal/no significant 12:32 6 / 10:52 9 excess salivation, sli 12:40 7 / 08:53 9 normal/no significant 12:54 7 / 10:16 9 normal/no significant 12:54 7 / 10:16 9 normal/no significant 12:55 7 / 10:16 9 normal/no significant 13:00 7 / 14:47 9 disoriented, moderate 13:05 8 / 09:58 9 normal/no significant 13:14 8 / 14:47 9 disoriented, soderate 13:21 8 / 14:47 9 disoriented, slight 13:21 9 / 10:59 9 disoriented, slight 13:25 9 / 09:53 9 normal/no significant 13:31 9 / 10:54 9 disoriented, slight				-						disoriented, moderate	
12:10										tremors, slight	
12:18 5 / 11:40 9 normal/no significant 12:24 5 / 12:43 9 normal/no significant 12:29 5 / 10:52 9 normal/no significant 12:42 6 / 10:52 9 excess salivation, sli 12:46 6 / 14:07 9 normal/no significant 12:49 7 / 10:16 9 disoriented, moderate tremors, slight excess salivation, sli 13:00 7 / 14:47 9 disoriented, moderate tremors, moderate tremors, moderate tremors, moderate 13:14 8 / 10:59 9 disoriented, slight tremors, moderate 13:21 8 / 14:41 9 disoriented, slight tremors, moderate 13:25 9 / 09:53 9 normal/no significant 13:25 9 / 09:53 9 normal/no significant 13:31 9 / 10:54 9 disoriented, slight tremors, moderate excess salivation, moderate				13-Apr.	-89	12:10	7	14:06	<b>о</b>		
12:24 5 / 12:45 9 normal/no significant 12:29 5 / 14:12 9 normal/no significant 12:42 6 / 10:52 9 excess salivation, sli 12:46 6 / 14:07 9 normal/no significant 12:46 7 / 08:53 9 normal/no significant 12:54 7 / 10:16 9 disoriented, moderate tremors, slight excess salivation, sli 13:00 7 / 14:47 9 disoriented, moderate tremors, moderate tremors, moderate 13:05 8 / 09:58 9 normal/no significant 13:21 8 / 14:41 9 disoriented, slight tremors, moderate tremors, moderate 13:25 9 / 09:53 9 normal/no significant 13:21 8 / 14:41 9 disoriented, slight tremors, severe excess salivation, moderate inactive anderate				13-Apr.	689	12:18		11:40	<b>~</b> (		
12:29				13-Apr	-89	12:24	`	12:43	<b>5</b> . (	significant	
12:42 6 / 10:52 9 excess salivation; sli 12:45 6 / 14:05 9 normal/no significant 12:49 7 / 10:16 9 disoriented, moderate 12:54 7 / 10:16 9 disoriented, moderate 13:00 7 / 14:47 9 disoriented, moderate 13:05 8 / 09:58 9 normal/no significant 13:21 8 / 14:41 9 disoriented, slight 13:21 8 / 14:41 9 disoriented, slight 13:25 9 / 09:53 9 normal/no significant 13:31 9 / 10:54 9 disoriented, slight 13:25 9 / 09:53 9 normal/no significant 13:31 9 / 10:54 9 disoriented, slight				13-Apr.	68-	12:29	`	21:41	> 0		
12:46 6 / 14:07 9 normal/no significant 12:49 7 / 10:16 9 disoriented, moderate 12:54 7 / 10:16 9 disoriented, moderate tremors, slight excess salivation, sli 13:00 7 / 14:47 9 disoriented, moderate tremors, moderate 13:05 8 / 09:58 9 normal/no significant 13:14 8 / 10:58 9 disoriented, slight 13:21 8 / 14:41 9 disoriented, slight tremors, moderate 13:25 9 / 09:53 9 normal/no significant 13:31 9 / 10:54 9 disoriented, slight tremors, anderate excess salivation, moderate innertive anderate				13-Apr	69°	12:55	•	10.51	<b>&gt;</b> (		
12:49 7 7 10:16 9 disoriented, moderate tremors, slight excess salivation, sli 13:00 7 7 14:47 9 disoriented, moderate tremors, moderate tremors, moderate tremors, moderate 13:05 8 7 09:58 9 normal/no significant 13:14 8 7 10:59 9 disoriented, slight tremors, moderate 13:21 8 7 14:41 9 disoriented, slight tremors, moderate 13:25 9 7 09:53 9 normal/no significant 13:31 9 7 10:54 9 disoriented, slight tremors, severe excess salivation, moderate innertice anderate				13-APF	) (	79:71	` `	14.07	٥ م	CATONIO VOLUMNIA VALUENA	
12:54 7 / 10:16 9 disoriented, moderate tremors, slight excess salivation, slight tremors, moderate tremors, moderate 13:21 8 / 14:41 9 disoriented, slight tremors, moderate 13:25 9 / 09:53 9 normal/no significant 13:31 9 / 10:54 9 disoriented, slight tremors, severe excess salivation, moderate				10 4 - C 1		12.70		08.54	٠.		
tremors, slight excess salivation, slight excess salivation, slight excess salivation, slight tremors, moderate tremors, moderate tremors, moderate 13:05 8 / 09:58 9 normal/no significant sign 13:21 8 / 14:41 9 disoriented, slight tremors, moderate 13:25 9 / 09:53 9 normal/no significant sign fremors, severe excess salivation, moderate inactive moderate inactive moderate				JA A D	80	12:54	. ^	10:16	• •		
13:00 7 / 14:47 9 disoriented, moderate tremors, moderate tremors, moderate tremors, moderate 13:05 8 / 09:58 9 normal/no significant sign 13:21 8 / 10:59 9 disoriented, slight tremors, moderate 13:25 9 / 09:53 9 normal/no significant sign 13:31 9 / 10:54 9 disoriented, slight tremors, severe excess salivation, moderate inactive moderate							•			tresors, slight	
13:00 7 / 14:47 9 disoriented, moderate tremors, moderate tremors, moderate 13:05 8 / 09:58 9 normal/no significant sign 13:21 8 / 10:59 9 disoriented, slight tremors, moderate 13:25 9 / 09:53 9 normal/no significant sign 13:31 9 / 10:54 9 disoriented, slight tremors, severe excess salivation, moderate inactive anderate										excess salivation, slight	
13:05 8 / 09:58 9 normal/no significant sign 13:14 8 / 10:59 9 disoriented, slight 13:21 8 / 14:41 9 disoriented, slight tremors, moderate 13:25 9 / 09:53 9 normal/no significant sign 13:31 9 / 10:54 9 disoriented, slight tremors, severe excess salivation, moderate				13-Apr		13:00		14:47	٥	disoriented, moderate	
13:14 8 / 10:59 9 disoriented, slight 13:21 8 / 14:41 9 disoriented, slight 13:21 9 / 10:59 9 normal/no significant sign 13:25 9 / 09:53 9 normal/no significant sign 13:31 9 / 10:54 9 disoriented, slight tremors, severe excess salivation, moderat				17.400.	9	13.05	œ	85.00	0	6 1 20	
13:21 8 / 14:41 9 disoriented, slight tremors, moderate 13:25 9 / 09:53 9 normal/no significant 13:31 9 / 10:54 9 disoriented, slight tremors, severe excess salivation, moderate inactive anderste				14 4 5 F	60	13.14	`	10.50	۰ ٥	<b>x</b>	
tremors, moderate 13:25 9 / 09:53 9 normal/no significant 13:31 9 / 10:54 9 disoriented, slight tremors, severe excess salivation, mod				13.Apr	68	13:21	` <b>~</b>	14:41	• •	disoriented, stiaht	
13:25 9 / 09:53 9 normal/no significant 13:31 9 / 10:54 9 disoriented, slight fremors, severe excess salivation, mod				!						tremors, moderate	
13:31 9 / .10:54 9 disoriented, slight temors, severe excess selication, instrine anderse				13-Apr.		13:25		09:53	٥		
				13-Apr		13:31	6	.10:54	٥	disoriented, slight	

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1ETT(	ERMAN ARMY DF RES SUI	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP DARKING OF NAM FRANCISCO NA 04120	E OF RES	SEARCI 04.120	I	а 8	w Data L	istin	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008F Data Listing by Animal	PRINTED: 03-Oct-89 Page: 33	0ct - 89
1/500	DOG/BEAGLE		,				1	Stud	Study Start Date: 31-Jan-89	ans	SUB-ACUTE/
0	e Animel Number	Cage Animal Sex/group Date and Time	Date Ke	and	Time	Study Data M	Study Day/time Oper Data was Taken #	Oper	,		) 
13	89A00027	13 89A00027 F/ 5/1 17-Apr-89 08:1	17-Apr	68	08:13	6	9 / 15:09	•	disoriented, slight tremors, moderate		
			17.405.80		67.80	5	/ 00-15	0	hunched posture, slight		
			17-Apr-89		08:54	5 5	10 / 10:55	• •	the action of the state of the		
									disoriented, slight excess selivation slight		
									inactive, slight		
									hunched posture, moderate		
			17-Apr-89		13:27	0	10 / 14:29	•	tremors, moderate		
			18-Apr-89		13:37	=	00:60 /	•	tresors anderste		
			18-Apr-89		13:42	Ξ	11 / 10:45	٥	tremors, moderate		
									disoriented, slight		
									hunched posture, slight		
			18-Apr-89		13:49	Ξ	11 / 14:36	•	tremors, moderate		
									disoriented, slight		
			18-Apr-89		13:56	12	12 / 08:45	٥			
					,	,	•	•	increased respiration rate, slight		
			18-Apr-89		14:01	12	90:21 / 21	>	hunched posture, moderate		
									disoriented, slight		
					, ,	;		•			
			19-Apr-89		13:54	2 =	08:28	• 0	disoriented, struct bioched posture slicht		
			10-401-80		13:47	1	11:30	• •	hunched posture, stight		
					:	!		•	VOBITIO		
									disoriented, moderate		
									tremors, severe		
			19-Apr-89		13:59	13	13 / 14:37	•	hunched posture, slight		
									disoriented, moderate		
							,	•	tremors, severe		
			24-Apr-89		11:14	<b>2</b> :	14 / 09:30	<b>O</b>	hunched posture, slight		
			24-Apr-89		11:22	1	7 10:52	>	hunched posture, moderate		
									VO#1 (1) 0		

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ETTE	RMAN ARN'	LETTERMAN ARMY INSTITUTE OF RI OLV OF RES SUPP, PATH SERV GP POPENTIOL OF NAM FRANCINCY DA	LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	E CH	S.	w Data Li	sting S	Raw Data Listings of Clinical Signs Without Masses Study Number: 86008f Data listing by Animal	Tasses.	PRINTED: 03-0ct-89 Page: 34
8/900	DOG/BEAGLE						Study	Study Start Date: 31-lan-89		SUB-ACUTE/
0 ta	Animel	Cage Animal Sex/group # Number /Subgroup	Date and	Time	1	Study Day/time Oper Data was Taken #				
<u>n</u>	89A00027	13 89A00027 F/ 5/1	24-Apr-89	11:22	:	14 / 10:52	۰, ۵	disoriented, slight tremors, severe		
			24-Apr-89	11:30	14	14 / 14:40	٥	excess salivation, moderate hunched posture, slight disoriented, slight trampts, anderste	<b>U</b>	
			24-Apr-89	11:36	15	/ 07:30	٥	cant	s	
14	14 89A00065	f/ 5/3	10-May-89	13:20	-		٥		s	
			10-May-89	13:24	-	/ 10:29	٥	,		
			;	,	•		•	slight		
			10-May-89	13:31	- (	714:07	<b>o</b> - (	Significant	9	
			10-May-89	13:35	~ (	79:90 /	<b>~</b> (	normal/no significant signs	S	
			10-Mey-89	15:58	~	/ 10:1/	>			
			:	,	•		•		,	
			10-May-89	15:41	~ ,	7 14:00	> 0	Significant	so (	
			10 - May - 59	13:43		00:70 /	> (	normal/no significant signs	so.	
			10-May-89	13:46		/0:01 /	>			
			:				,			
			10-May-89	14:29	•	74:19	<b>-</b> (	Significant	s ·	
			10-May-69	14:32		04:70 /	• (	normal/no significant signs	A	
			10-May-89	66:41		71:01 /	>			
								THEORY OF BUILDING		
			00	17.30	*	17.00	0	50000000000000000000000000000000000000	6	
			10-YBY-01	47.75		71.70	۰ ۵	significant	3 4	
			10-14-0	77-71	٠ ٠	11.26	• 0		<u>,                                     </u>	
					•	2	•	inactive sticht		
								excess salivation, slight		
			10-May-89	14:48	7.5	/ 14:10	6	inactive, slight		
			10-May-89	14:50	<b>'</b> 9	/ 07:14	٥	normal/no significant signs	vs.	
			10-May-89	14:55		/ 10:22	٥	inactive, slight		
								excessive thirst, slight		

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LETTER DIV OF	RES SUI	LETTERMAN ARMY INSTITUTE OF BE DIV OF RES SUPP, PATH SERV GP	E OF RES	RESEARCH		α 0	Data Li	sting S	Raw Data Listings of C.inical Signs Without Masses Study Number: 88008F	PRINTED: Page:	03-0ct-89 35
PRESIDIO OI DOG/BEAGLE	AGLE	PRESIDIO OF SAM FRANCISCO, CA 94129 DOG/BEAGLE	CO, CA	94129					Data Listing by Animal Study Start Date: 31-Jan-89		SUB-ACUTE/
<b>6</b>	Animel	Cage Animal Sex/group Date and Time # Number /Subgroup Date was Entered	Date Date	end Ent	9 9	Study Day/time Data was Taken	t				
14.8	19A00065	14 89A00065 F/ 5/3 10-May-89 14:5	10-May-89	-89	14:55	/ 9		. •	excess salivation, slight		
		•	10-May-89		14:57	9	14:14	•	normal/no significant signs		
			10-May-89		14:59	<b>/</b>	07:10	•	normal/no significant signs		
			10-May-89		15:02	7 /	10:34	•			
									slight		
			A		90.31			٥	excessive inirst, moderate		
			10-May-89		5:16	- 60	07:35	• •	Soft stool moderate		
			10-May-89		15:21	8		٥	Vomiting		
						•			disoriented, slight		
									excessive thirst, severe		
			10-May-89		5:25	88		٥	normal,'no significant signs		
			10-May-89		15:29	6		٥	soft stool, moderate		
			10-May-89		5:34		10:11	۰	vomiting		
			•						disoriented, moderate		
									excessive thirst, slight		
									inactive, slight		
			10-May-89		15:39	6	14:05	۰	soft stool, moderate		
			11-May-89		12:08	10 /	60:20	٥.	soft stool, slight		
			11-Hay		2:12		10:24	•	voniting		
									disoriented, moderate		
									inactive, slight		
			11-May-89		12:15	10 /	/ 14:00	•	inactive, slight		
					9			c			
			11-May-69		12:22	= =	10:12	۰ ۵			
					  -  -	•			disoriented, moderate		
									excessive thirst, moderate		
			11-May-89		12:26	11 /	/ 14:30	٥	inactive, slight		
					,		1	,	panting, slight		
			11-May-89		12:29	12 /	00:20 /	Φ.	soft stool, moderate		
			11-May-89		2:34	12 /	10:20	٥.	disoriented, slight		
									instrict attack		
			11-May-89		12:37	12 /	12 / 14:17	٥	instruction and an articles		
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LETTERM	AN ARMY	LETTERMAN ARMY INSTITUTE OF RESEARCH	E OF RES	EARCH	_	S.	w Data L	istin	Raw Data Listings of Clinical Signs Without Masses	
PRESIDI	RES SUF O OF SA	DIV OF RES SUPP, PAIN SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129	ERV GP CO. CA 9	4129				مَ	Study Rumber: Bacobi Data Listing by Animal	Page: 50
DOG/BEAGLE	GLE		•						80	<b>S</b> ns
	Anime! Number	Cage Animal Sex/group Date and Time	Date and Time	and se Ent	Time	Study Data w	Study Day/time Oper Data was Taken #	Oper	Clinical signs / Comments	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
14 89	14 89A00065	89A00065 F/ 5/3 11-May-89 12:40	11-May-89 12:40	89	2:40	13	13 / 07:16	•	soft stool, slight	* 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
									excessive thirst, moderate	
			11-May-89		12:43	13	13 / 10:27	۰		
					!				excessive thirst, moderate	
			11-May-89		12:46	13	13 / 15:06	۰	normal/no significant signs	
			11-May-89		12:48	7	/ 07:43		soft stool, moderate	
			;		1	•	•	•	panting, slight	
			11-May-89		14:13	*	14 / 09:43	•	vomiting	
									inactive, severe	
							1			
			11-May-89		14:16	7	/ 15:00		normal/no significant signs	
			11-May-89		14:18	7	02:00 /	٥	normal/no significant signs	
15 89	89A00069	F/ 5/4	10-May-89		08:08	-	09:90 /		normal/no significant signs	
			10-May-89		08:12	-	7 10:45		excess salivation, severe	
			•						vomiting	
									tremors, slight	
									hunched posture, slight	
			10-May-89		08:16	-	/ 14:04	•	normal/no significant signs	
			10-May-89		18:18	~	07:10	٥	normal/no significant signs	
			10-May-89		08:22			٥	excess salivation, slight	
									vomiting	
									hunched posture, slight	
			10-May-89		08:56	7	/ 14:23		normal/no significant signs	
			10-May-89		08:28	m	7 07:45	•	soft stool, slight	
			10-May-89		8:35	m	/ 10:31		excess salivation, moderate	
									vomiting	
									tremors, moderate	
					,			,		
			10-May-89		08:39	<b>M</b>	/ 14:05	<b>O</b>		
			10-Mey-89		08:41	3	/ 07:15	•	normal/no significant signs	
			10-Mey-89		08:46	4	/ 12:03	•	vomiting	
									disoriented, slight	
			7		0	•	10.11	•	O	
			10-Key-69		74.00	* "	17:41 /	• 0	TOTAL (AD SIGNITUDES SIGNS	
			LO-MEY		10:0	n	03:10 /	•		

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LETTE DIV 0	LETTERMAN ARMY INSTITUTE OF R.	PP, PATH	JTE OF RES	RESEARCH		æ	d Data L	isting	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008F	PRINTED: 03-Oct-89 Page: 37
PREST DOG/8	PRESIDIO OF SV DOG/BEAGLE	AM PRANCE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/Beagle	4129				Study	Data Listing by Animal Study Start Date: 31-Jan-89	
000	Cage Animat	Sex/grou/	Cage Animal Sex/group Date and Time	nd T		tudy [	Study Day/time Cper Data was Taken #		ns / Comments	
15	15 89A00069 F/ 5/4	F/ 5/4	15 89A00069 F/ 5/4 10-May-89 08:55	89 08	•	5 /	5 / 10:57	•	excess salivation, slight	
									Vomiting Second thirst, slight installs aliabe	
			10-May-89		08:57	8	14:28	٥		
			10-May-89		08:59	\	07:12	<b>o</b> - (	normal/no significant signs	
			10-MBY-8V		20:40	0	66:01	>	excess salivation, moderate	
									disoriented, slight	
			10-May-89		90:60		/ 14:13	<b>o</b> (	significant	
			10-May-89		90:60	~	07:40 /	<b>o</b> . (	normal/no significant signs	
			10-May-89		06:10		10:37	Φ.	excess salivation, moderate	
									*0#iting	
									excessive thirst, studit	
					,			ď	inactive, stignt	
			10-Mey-01		21:40		77:40	٥ م	Contract respiration depth, acres	
			TO-MBY-GY		17:40	0 «		• •	SOTT STOOL, STIGHT	
								•	excess salivation, moderate	
									e, moderate	
			10-May-89		09:32	8		٥	normal/no significant signs	
			10-May-89		09:34	6	07:13	٥	normal/no significant signs	
			10-May-89		:37		/ 10:43	•	excess salivation, moderate	
									Inactive, moderate	
									Vomiting disoriented slight	
			10-May-89		09:39	6	14:11	٥	normal/no significant signs	
			10-May-89		09:41		09:05	•		
			10-May-89		09:45	10	10:32	٥	excess salivation, severe	
						•			inactive, moderate	
									vomiting	
			;		!	•		•		
			10-Mey-89		74:00	2 :	10 / 14:50	> 0	TOTES / NO 6180111CAN BISTS	
			A BE		<b>.</b>	:	5	•		

OF RES SUF		2	LEITERMAN ARMY INSTITUTE OF RESEARCH	Ŧ	×		ここころ	Res Date Listings of Clinical Signs Withour Masses	PRINTED: 03-0ct-89	001-20
PRESIDIO OF SI DOG/BEAGLE	DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAM FRANCISCO, CA 94129 DOG/BEAGLE	CO, CA	94129	: _			Study			38 SUB-ACUTE/
Anime	Cage Animal Sex/group Date and Time	Date .	### ED		Study   Date W	Study Day/time Oper Data was Taken #	Oper.	ments	1	: : : :
89400069	15 89A00069 F/ 5/4 10-May-89 09:53	10-Me)	y-89	09:53	-	11 / 10:45	. <b>.</b>	inactive, moderate  Vomiting disoriented slight	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		10-May-89 10-May-89		09:58 10:00	12	/ 14:12 / 07:25	00	normal/no significant signs		
		10-May-89		10:04	5 5	/ 10:41	<b>~</b> •	excess salivation, moderate excessive thirst, moderate pormal/no eignificant signs		
		10-May-89		10:10	i to t	7 07:48	• • •			
					· •		•	inactive, moderate vomiting		
		:		•		i	Ó	chaption of the state of the st		
		10-Key-89		10:16	2 4	7 07:13	<b>~</b>	procreating significant signs		
		10-May-89		10:23	2	7 09:55	•	inactive, slight		
								excess salivation, moderate burned solicities slight		
		10-May-89		10:26	1, 41	14 / 14:52	۰	hunched posture, slight		
		10-May-89		10:28	15.	7 07:17	٥ ٥			
10 89AUUU29	7/0 /4	12-Apr-89		13:52		/ 10:31	• •	bloody urine, severe		
		•						vositing disoriented, moderate		
								tremors, moderate excess selivation, moderate		
		12-Apr-89		14:01	-	/ 14:21	۰	Vomiting Airpriseted slight		
		13-Apr-89		10:15	~ (	/ 10:39	•	7		
		13-Apr-89		10:24	~ ~	11:40	<b>~</b> •	normal/no significant signs normal/no significant signs		
		13-Apr-89		10:40	m	07:58	. 0	significant		

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LETTER DIV OF	HAN ARM	LETTERMAN ARMY INSTITUTE OF DIV OF RES SUPP, PATH SERV	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP	₹.	•	aw Data	Listir	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008F	PRINTED: 03-0ct-89 Page: 39
PRESIDIO O DOG/BEAGLE	AGLE	AN FRANCIS	SCO, CA 9412						ens.
900	Animel	Sex/group /Subgroup	Cage Animal Sex/group Date and Tim	Time	Stud) Date	Study Day/time Oper Data was Taken #	e Oper	Clinical signs / Comments	c 0 1 1 1 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1
16.8	19A00029	F/ 6/1	16 89A00029 F/ 6/1 13-Apr-89 10:5	10:57	. <del></del> 1	3 / 10:08		זר	
			13-Apr-89	11:06	<b>,</b>	/ 14:11		tremors, moderate normal/no simplificant simps	
			13-Apr-89	11:52	•	. 🔪	6		
			13-Apr-89	12:02	•			Voliting	
								disoriented, moderate tiemons, moderate	
			13-Apr-89	12:1	4	/			
			13-Apr-89		٠.	`	<u>م</u>	ĭ	
			13-Apr-89	12:2	-7 i	`		significant	
			13-Apr-89	12:2	<b>-</b> '	`		significant	
			13-Apr-89	12:3	•	\		normal/no significant signs	
			13-Apr-89	12:43	•				
			13-Apr-89	12:47	ا ري-	<u> </u>		significant	
			13-Apr-89	12:49	,	\		significant	
			13-Apr-89	12:54	,~ 1	`		significant	
			13-Apr-89	13:01		\			
			13-Apr-89	13:05	~	60 /		normal/no significant signs	
			13-Apr-89	13:14	~	/ 10:59		disoriented, slight	
								tremors, moderate	
								excess selivation, slight	
				,	•	•		excessive thirst, moderate	
			13-Apr-89	15:2		\			
			13-Apr-89	13:26	•	`	<b>.</b>	normal/no significant signs	
			13-Apr-89	13:3	_			disoriented, moderate	
								tremors, moderate	
			•		•			excessive thirst, severe	
			17-Apr-89	08:14	•	`		normal/no significant signs	
			17-Apr-89	08:43	2	\	<b>O</b>	soft stool, moderate	
			17-Apr-89	08:55	7	/ 09:59		vomiting	
								disoriented, moderate	
				•				excess salivation, severe	
			17-Apr-89	13:29	20	/ 14:30	•	descriented, slight	
			18-Apr-89	13:37	1	11 / 09:00	•	congested tung sounds, stight norms!/no significant signs	

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LETTER DIV OF PRESID DOG/BE	LETTERMAN ARNY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAW FRANCISCO, CA DOG/BEAGLE	Y INSTIT	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAW FRANCISCO, CA 94129 DOG/BEAGLE	SEARC 94129	<b>x</b>	e e	M Data L	isting S Study	Rew Data Listings of Clinical Signs Without Masses Study Number: 88008F Data Listing by Animal Study Start Date: 31-Jan-89	PRINTED: 03-0ct-89 Page: 40 SUB-ACUTE/
0 to	Animal	Sex/gro/	Cage Animal Sex/group Date and Time	and as En		Study Data H	Study Day/time Data was Taken	Oper #	Clinical signs / Comments	•
16	16 89A00029 F/ 6/1	F/ 6/1	18-Apr-89 13:42	68		=	11 / 10:45	•	i od	
			18-Apr-89 18-Apr-89	989	13:49	122	7 14:40 / 08:45	000	congested lung sounds, slight soft stool, slight	
				<b>3</b>		<u>.</u>	2	•	tremors, slight excessive thirst, severe inactive, moderate	
			19-Apr-89		13:25	12	12 / 14:00	٥	excessive thirst, anderste	
			19-Apr-89		13:34	Z I	13 / 08:28	۰.	congested tung sounds, stignt normal/no significant signs	
						2			discrimented, moderate tremons, slight	
									excessive thirst, severe inactive, stight	
			19-Apr-89		14:00	17	/ 14:39	00	normal/no significant signs	
			24-Apr-89		11:23	14	/ 10:56	•		
									cressive thirst, severe	
									congested lung sounds, moderate inactive, moderate	
			24-Apr-89	68-	11:31	7	14:41 / 14:41	٥	hunched posture, moderate tremors, slight	
			24-Apr-89		11:36	15 ,	/ 08:15		congested lung sounds, moderate congested lung sounds, slight	
17	17 89A00041	F/ 6/2	25-Apr-89		13:16		09:35	<b>о</b> - 0	normal/no significant signs	
			23-Apr-89	)  -	13:43	_	C : 01 /	<b>&gt;</b>	もとにもち ちきこしくきにしのう。 まららの「さくの」としまって こうしん こうじん こうごうしょう	

HISTORIES
ANIMAL
INDIVIDUAL
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Appendix

Continued and   Table   State   Continued Stat			App	Appendik	۵	(cont.):	••	INDIVIDUAL ANIMAL HISTORIES	
### Sex/group Date and Time Study Day/time Oper Clinical signs / Comments Der / Subgroup Date was Entered Data was laken # Clinical signs / Comments Compared Data was laken # Clinical signs / Comments Day 13:25   1 / 10:35   7 remors, slight discrimated, moderate discrimated, moderate discrimated, moderate discrimated, moderate discrimated, moderate discrimated posture, slight vomiting provided posture, slight tremors, moderate discrimated moderate vomiting normal/no significant signs vomiting normal/no significant signs vomiting discrimated alight normal/no significant signs vomiting normal/	LETTERMAN ARM DIV OF NES SU PRESIDIO OF S DOG/BEAGLE	IY INSTITUTIPP, PATH S	E OF RESEAL Serv GP Sco, CA 941;	RCH 29	S.	w Data Li	sting S Da Study	s of Clinical Signs Without Masses tudy Number: 88008f ta Listing by Animal Start Date: 31-Jan-89	PRINTED: 03-0ct-89 Page: 41 SUB-ACUTE/
7 89A00041 F/ 6/2 25-Apr-89 13:25 1 / 10:35 9 remore, severe 25-Apr-89 13:25 1 / 14:47 9 tremore, slight disoriented, moderate also remained from the significant signs 25-Apr-89 13:59 2 / 10:44 9 vomiting access salivation, slight tremore, moderate disoriented, slight disoriented disoriented, slight disoriented, slig	Cage Animal	Sex/group /Subgroup	Date and	Time	Study Data w	Day/time as Taken	0per	ments	
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			01-May-89	15:12	7	/ 10:24		normal/no significant signs	

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LETTE DIV Q PRESI DOG/B	LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAM FRANCISCO, CA 94129 DOG/BEAGLE	F INSTITUTE PP. PATH	TE OF R SERV GP SCO, CA	ESEAR 9412	* o	œ œ	¥ Data L		Raw Data Listings of Clinical Signs Without Masses Study Number: 88008f Data Listing by Animal Study Start Date: 31-Jan-89	PRINIED: 03-0ct-69 Page: 42 SUB-ACUIE/
000	Cage Animal Sex/group Date and Time Mumber /Subgroup Date was Entered	Sex/grou/	p bete	and was Ei	Time	Study Data M	Study Day/time Oper Data was Taken **	0per	Clinical signs / Comments	1
11	17 89A00041 F/ 6/2 01-May-89 15:21	F/ 6/2	01-N	01-May-89 15:2	15:21	7	7 / 11:25	6	excess salivation, moderate volumenting	
			02-May-89	y-89	14:31	7	7 / 14:49	٥	disoriented, moderate hunched posture, slight	
			02-May-89 02-May-89	y-89 y-89	14:38	හ ත	10:5	• •	normal/no significant signs excess salivation, moderate	
						ı			tremors, moderate disoriented, moderate	
			02-May-89	y-89	15:03		/ 15:15	٥	hunched posture, slight disoriented, moderate	
			02-MBY-89	08-X	15:07	00	/ 09:36	• •	normal/no significant signs excess salivation, moderate	
			:	; •					vomiting	
									tremons, moderate disoriented, moderate	
									hunched posture, moderate	
			02-May-89	y-89	15:33	٥	/ 14:23	0	disoriented, slight	
			02-May-89	V-89	15:38	2 5	10 / 09:15	<b>о</b> о	normal/no significant signs	
			8E, 70	¥-0,	0	2	50:11	•	ないに、 そうに くさい こくさい こくさい こくこう こくこう こくご	
									tremors, slight	
									disorientes, moderate funched posture, moderate	
			02-May-89	y-89	15:53	10	10 / 14:42		hyperactive, slight	
			03-MBY-89	68-X-89	08:10	==	/ 08:39	o o	panting, slight excess salivation, moderate	
									Vomiting tremors, moderate disoriented, moderate	
									hunched posture, moderate excessive thirst, severe	
			03-May-89	y-89	08:56	=	11 / 14:00	0	tress.s.s.slight	
			03-May-89	y-89	08:33	12	12 / 08:32	•	normal/no significant signs	

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LETTERN DIV OF PRESIDI	IAN ARMY RES SUF O OF SA	LETTERMAM ARMY INSTITUTE OF RESEARC DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129	E OF RES	RESEARCH GP CA 94129	•	Me D	eta Lis	ting: S: Dat	Raw Data Listings of Clinical Signs Study Number: 8800bf Data Listing by Animal	jns Without Masses Jbf Imal	Masses	PRINTED: 03-Oct-89 Page: 43
DOG/BEAGLE	IGLE						•	Study	Study Start Date: 31-Jan-89	Jan-89	, , , , , , , , , , , , , , , , , , , ,	SUB - ACUTE/
0.1	Cage Animal	Animal Sex/group Date and Time Number /Subgroup Data was Entered	0 a t e .	nd Time a Entered		y Day/time was Taken				/ Comments		
17 89	A00041	17 89A00041 F/ 6/2 03-May-89 08:44	03-Nay-	03-May-89 08:44	7	12 / 11:54	! !	<u> </u>		ah t		
									nunched posture, s inactive, slight excessive thirst,	stignt , severe		
			03-May-89 03-May-89	89 09:06 89 09:09	12 13	` `	14:42 10:00	o o	disoriented, slight normal/no significant signs	jht icant signs		
			03-Hay-89			_	11:29		excess salivation, slight	n, slight		
								-	vomiting tremors, moderate	4.		
									disoriented, moderate	rate		
			03-May-89	89 09:33	13		14:48	•	hunched posture, slight tremors, moderate	siight		
								•	disoriented, slight	Jh t		
								_	hunched posture, slight	slight		
			04.748.50	75.00 08	71	_	00.00		inactive, slight normal/no significant	CANT SIGNS		
			03-Hay-89			. \	10:38	. 0	Vomiting			
			•						tremors, moderate			
									disoriented, slight	, ht		
								•	excessive thirst	moderate		
			03-May-89			`	14:58			cant signs		
			03-May-89		15	`	7:30	_	normal/no significant			
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			10-May-89	89 13:35		`	06:47	_		cant signs		
			10-May-89			\	10:19					
			10-May-89	89 13:42		`	14:00					
			10-May-89			•	00:70	_		Cant Signs		
			10-May-89	19:41		•	16:18		inactive, stight	cant sions		
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4 / 10:14 9 vomiting inactive, slight inactive, slight inactive, slight inactive, moderate inactive, slight inactive, sl	900	Animel	Sex, aro	up Date	E E	Time	Study Date M	Day/time as Taken		Cinical signs / Comments	1 1 1 1 1 1 1 1
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15:26 8 / 14:31 9 normal/no significant signs 15:29 9 / 07:13 9 normal/no significant signs 15:34 9 / 10:16 9 vomiting 15:39 9 / 14:06 9 disoriented, slight 12:09 10 / 07:10 9 soft stool, slight 12:13 10 / 10:27 9 vomiting 12:14 10 / 14:07 9 inactive, slight 12:16 10 / 14:07 9 inactive, slight 12:19 11 / 09:00 9 soft stool, slight 12:23 11 / 10:17 9 excess salivation, moderate inactive, slight disoriented, slight disoriented, slight 12:23 11 / 10:17 9 excess salivation, moderate inactive, slight										tremors, slight	
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inactive, slight  15:39 9 / 14:06 9 disoriented, slight  12:09 10 / 07:10 9 soft stool, slight  12:13 10 / 10:27 9 vomiting inactive, slight  12:16 10 / 14:07 9 inactive, slight  12:19 11 / 09:00 9 soft stool, slight  12:23 11 / 10:17 9 excess salivation, moderate inactive, slight disoriented, slight disoriented, slight				10-MB	y-89	15:34	•	/ 10:16	0	vomiting	
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increased respiration depth, 12:19 11 / 09:00 9 soft stool, slight 12:23 11 / 10:17 9 excess salivation, moderate inactive, slight disoriented, slight				11-MB	y-89	12:16	2	/ 14:07	<b>о</b> ъ		
12:23 11 / 10:17 9 excess salivation, inactive, slight disoriented, slight					;	•	;		1	ion depth,	
12:23 11 / 10:17 9 excess salivation, inactive, slight disoriented, slight				11-MB	y-89	12:19	= :	00:60 /	<b>O</b>	soft stool, slight	
				11-NB	y-89	12:23			٥	excess salivation, moderate	
										inscrive, slight	
				;			:		•	disoriented, student	

			~	Appendi	ndix	<u>a</u>	(cont.):		INDIVIDUAL ANIMAL HISTORIES		
LETTERMAN DIV OF RESPRESIBLO OF DOG/BEAGLE	LETTERMAN ARMY INSTITUTE OF RESEARC DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	INSTITUTE, PATH SI FRANCISI	E OF RECO.	RESEARCH	ž 6	æ	w Date L	isting De Study	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008F Data Listing by Animal Study Start Date: 31-Jan-89	PRINTED: Page:	PRINTED: 03-Oct-89 Page: 45 SUB-ACUTE/
C	Animal Sex/group Number /Subgroup	Animal Sex/group Date and Time	Date and	and E	Time	Study Data	Study Day/time Data was Taken	0per	Clinical signs / Comments		
18 8	18 B9A00061 F/ 6/3	F/ 6/3	11-MBY-89 11-MBY-89 11-MBY-89		12:27 12:29 12:34	11 12 12	/ 14:30 / 07:01 / 10:25	. 000	increased respiration depth, slight soft stool, moderate inactive, slight	1 1 1 1 1	1
			11-May-89 11-May-89	y-89 y-89	12:37	12		••	nunched posture, stignt inactive, slight soft stool, slight excess salivation, slight		
			11-May-89	y-89	12:44	£ :	/ 10:29	•			
			11-Mey-89 11-Mey-89 11-Mey-89	7-89 7-89 7-89	12:46 12:48 14:13	<u> </u>	/ 15:06 / 07:43 / 09:47	<b>~</b> ~ ~	increased respiration depth, slight soft stool, moderate hunched posture, moderate		
			11-May-89	y-89	14:16	14	/ 15:00	٥	vomiting disoriented, moderate hunched posture, slight		
19 8	89A00030	F/ 7/1	11-May-89 12-Apr-89	y-89 r-89	14:18	5	/ 07:09	000	soft stool, slight normal/no significant signs		
			12-Apr-89 13-Apr-89 13-Apr-89		16:02 10:16 10:24 10:33	000	/ 16:22 / 10:51 / 11:51 / 14:39		remote, stignt normal/no significant signs normal/no significant signs normal/no significant signs normal/no significant signs		
			13-Apr-89 13-Apr-89 13-Apr-89	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10:40 10:57 11:07 11:53	M M M 4 4	/ 08:00 / 10:14 / 14:12 / 09:25	0000	normal/no significant signs tremors, moderate tremors, slight normal/no significant signs		
			13 - Apr - 89 - 14 - 14 - 14 - 14 - 14 - 14 - 14 - 1			4 400004	/ 10:30 / 14:07 / 09:30 / 12:53 / 14:16	·	fremors, moderate hunched posture, slight inactive, slight normal/no significant signs normal/no significant signs normal/no significant signs		
			٠. د د د	¥0.1	(4:71	0	50:11	•			

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LETTER DIV OF PRESID	MAN ARM RES SU	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAW FRANCISCO, CA 94129	E OF RESE	EARCH 4129	, ēj Ok	K Data Lis	tings Stu Dete	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008F Data Listing by Animal	PRINTED: 03-Oct-89 Page: 46
DOG/BEAGLE	AGLE					,	tudy S	Study Start Date: 31-Jan-89	SUB-ACUTE/
Cage	Animal	Animal Sex/group Date and	Date .	nd Time	,	Study Day/time Oper	•		
•	Mumber	# Number /Subgroup Data was Entered	Date we	8 Entered		Data was Taken	บ :	Clinical signs / Comments	
19 8	9A00030	19 89A00030 F/ 7/1	13-Apr-89	89 12:47	9	/ 14:08		hunched posture, slight	
		•	13-Apr-89		~	/ 08:56	6	normal/no significant signs	
			13-Apr-89			/ 10:21		hunched posture, slight	
			13-Apr-89		_	14:49			
			13-Apr-89			/ 10:04	_	normal/no significant signs	
			13-Apr-89			/ 11:05		hunched posture, slight	
			13-Apr-89	89 13:21	•	14:42	_	hunched posture, slight	
							Ð	disoriented, slight	
			13-Apr-89			7 09:56		normal/no significant signs	
			13-Apr-89	89 13:32	0	/ 10:59	9	hunched posture, slight	
							_	disoriented, slight	
			17-Apr-89		0	/ 15:10		tresors, moderate	
			17-Apr-89		•	/ 09:16		hunched posture, slight	
			17-Apr-89	89 08:55		11:01	0		
			17-Apr-89		10	/ 14:30		tresors, Stipht	
			18-Apr-89			00:60 /		hunched posture, slight	
			18-Apr-89	89 13:43		/ 10:50		hunched posture, slight	
			•				ב	tremors, moderate	
								inactive, slight	
							Ġ	disoriented, slight	
			18-Apr-89			14:40	٠ ج	hunched posture, slight	
			18-Apr-89		5 12 ,	7 08:45		hunched posture, slight	
			18-Apr-89	89 14:03		/ 12:10	_	hunched posture, moderate	
							٥	resors, moderate	
							_	disoriented, moderate	
			19-Apr-89	89 13:26	12	/ 14:00	⊋: •	hunched posture, slight	
			,				_	disoriented, slight	
			19-Apr-89	89 13:35		13 / 08:29	2	normel/no significent signs	
			19-Apr-89			/ 11:35		tremors, moderate	
							ž	hunched posture, moderate	
							Ö	disoriented, moderate	
			19-Apr-89			/ 14:38	P 6	disoriented, slight	
			24-Apr-89	89 11:15		05:60 /		normal/no significant signs	
			24-Apr-		74.	/ 10:57		tremors, slight	
							_	inective, slight	

				Appe	Appendix	) a	(cont.):		INDIVIDUAL ANIMAL	HISTORIES
LETT DIV PRES DOG/	LETTERMAN ARMY INSTITUTE OF RESEARC DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	P. PATH	UTE OF SERV ( 15CO, (	RESEARC GP CA 94129	. C.	œ	BW Dota I	Stud	Raw Data Listings of Ctinical Signs Without Masses Study Mumber: 880086 Data Listing by Animal Study Start Date: 31-Jan-89	Masses PRIMTEO: 03-Oct-89 Page: 47 SUB-ACUTE/
0 T	e Animal Number			Date and Time	Time	Study Data	8y/	oper .	Clinical signs /	
19	89400030	F/ 7/1 24-Apr-89 11:2	54-1	24-Apr-89	11:23	7.	14 / 10:57	•	hunched posture, slight	
			<b>56</b> -1	24-Apr-89	11:31	14	/ 14:41	•	inactive, slight	
				24-Apr-89	11:36	15	/ 08:15	Φ.	sture, stigh	
20	89A00035	F/ 7/2		25-Apr-89	13:17		7 09:42	<b>o</b> o	normal/no significant signs	
			22-52	25-Apr-89	13:39	-	/ 14:48	• •	significant	
			25-	25-Apr-89		~	/ 07:50	ο.	significant	
			27-	27-Jun-89	08:28	~ ^	/ 10:51	40	normal/no significant signs	
			27-	99-LTC	- 80	u m	/ 09:35	٧,	significant si	
			25-	Apr - 89		×	/ 10:49		significant si	
			01-10	May-89		m.	/ 14:15	Φ.	significant	
			25-	Apr - 89	14:36	*	/ 09:30	m a	normal/no significant signs	
			- 62	01-Mav-80		, ,	7 14:27	• •		
				01-Hey-89		~	/ 10:40	•	significant	
			-10	01-May-89	14	~	/ 11:40	Φ.	significant si	
			6	May-89	7:	· ·	/ 14:14	<b>o</b> - c	significant si	
			5 6	01-Mey-89	14:47	۰ ۷	70:00 /	• 0	DOTES / DO SIGNITICANT SIGNS	
			5 5	01-Nev-89	_	•	14:42	• •	significant si	
			-10	01-Hay-89	15:13	_	/ 10:25	•	significant	
			6	01-May-89	- •	_ ^	/ 11:26	<b>o</b> c	significant	
			02-1	02-May-89	14:31	~ 40	/ 10:18	• 0•	normat/no significant signs	
			02-1	02-May-89		€0	/ 11:19		significant si	
			02-1	May-89	15:03	<b>80</b>	/ 15:16	-	significant	
			05-	02-Hay-89	15:08	<b>о</b> (	/ 09:36		significant si	
			-20	02-May-89	? .	<b>~</b> (	7 11:21	<b>&gt;</b> 0	significant	
			- 70	02-MBY-69	15.38	<b>,</b> E	/ 14:23	> 0	normal/no significant signs	
			02-1	02-May-89	15:46	2 2	/ 11:07	• •	significant	
			02-1	02-May-89	15:53	5	/ 14:43	٥	significant	
			-50	03-Mey-89	08:11	= :	••	۰ ۱	significant si	
			-50	-May-89	08:19	=	/ 12:27	•	normal/no significant signs	

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LETTERNAM DIV OF RESPRESSIDIO O DOG/BEAGLE	\$ 5 L	INSTITUTE OF UMPP, PATH SERV SAN FRANCISCO,	TTUTE TN SE NCISC	0F RV GP 0, CA	FRESEARCH GP CA 94129		•	at Data	Listi:	Raw Data Listings of Clinical Signs Wi Study Number: 88008f Data Listing by Anima Study Start Date: 31-Jan-89	igns Without Masses 008f nima -Jan-89	<b>X</b>	PRINTED: 03-Oct-89 Page: 48 SUB-ACUTE/
	Animal	Sex/group /Subgroup	970		end Es E	; ~	Study Data	Study Day/time Data was Taken	me Oper		Comments		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
•	•	:	:	03-May-89	4-89	08:26	; <b>=</b>	: `	:		significant signs	· · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
				03-May-89	60	08:33	12	/ 08:33		normal/no signif	significant signs		
				03-He	60-7	90:60	12		200		gnificant signs		
				03-He)	4-89	60:60	-	. ~		S	S		
				03-Me	68-7	09:25	=:	<b>\</b> ·					
				03-887-89	, e	09:33	76	00:00	•	normal/no signif	Significant Signs Significant Signs		
				03-H	68-7	09:47	7	. ~					
				03-He)	68-7	09:54	14	. ~					
				03-May	4-89	09:59	1.5	1 07:31		normal/no signif	significant signs		
21 8	89A00070	F/ 7/4		10-Me)	68-4	08:08	_	_		normal/no significant			
				10-Ma)	68-A	08:13	_	/ 10:46	6 9	disoriented, slight	ight		
										inactive, slight	٠ .		
				10-Ma)	۷-89	08:16	_	`		disoriented, slight	ight		
				10-May-89	٧-89	08:18	7	`	<u>ه</u>	normal/no significant	ficant signs		
				10-Me)	۷-89	08:23	. •	/ 10:37		inactive, slight			
										disoriented, slight			
				10-May-89	¥-89	08:26	2 1	\		normal/no significant			
				10-94	- C	08:30	~1 P	`		normal/no significant	ficant signs		
				- N	) (	00:00	· 1 P	7	<b>~</b> c	disorienced, stignt	•		
				- C		08:57	<b>1</b>	•		pormet/no significant	significant signs		
				10-4	68-7	08:47	. 4	. `					
				10-Me)	4-89	67:80	4	_					
				10-Me)	4-89	08:51	w.	_	1 9	normal/no signif	significant signs		
				10-Me)	V-89	08:55	r.	`		normal/no signif	significant signs		
				10-Ma)	٧-89	08:57	<b>5</b> 7	`		normel/no signif	significant signs		
				10-Me)	4-89	08:59	•	-	2	normel/no signif	significant signs		
				10-Me)	68-X	09:05	· U	\		disoriented, slight			
				10-May-89	4-89	09:05	<b>-</b> ∪ 1	\		normal/no significant			
				10-Me	68-4	90:60	~ 1	\		normal/no significant	ficent signs		
				10-May-89	68-7	06:10	- 1	<b>\</b>		disoriented, slight			
				10-May-89	- Q	21:40	- (	4.	<b>~</b> (	normal/no significant			
				(	¥-0×	17:40	-	(1:/0 / 1	•	normal/no significant			

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### Sex/group Date and Time Study Day/Line Oper	LETTE DIV O PRESI	FRES SUF DIO OF SA	PP. PA	TUTE TH SE		SEARC 94129	×	ox .	Bw Data	istin	gs of Clinical S Study Number: 88 ata Listing by A		Ne sses	
# Number / Subgroup Date and Time Study Day/time Oper   Clinical signs / Commendation   Commenda	9/500	;	,		;	:		1	,		y Start Date: 31	Jan-89	3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	/3COTE/
21 89400070 F/7/4 10-Nay-89 09:30 8 / 10:33 9 disoriented, slight Inactive, slight 10-Nay-89 09:34 9 / 10:43 9 normal/no significant 10-Nay-89 09:34 9 / 10:43 9 normal/no significant 10-Nay-89 09:41 10 / 10:32 9 normal/no significant 10-Nay-89 09:41 10 / 10:32 9 normal/no significant 10-Nay-89 09:47 10 / 10:32 9 normal/no significant 10-Nay-89 09:47 10 / 10:32 9 normal/no significant 10-Nay-89 09:47 11 / 10:46 9 normal/no significant 10-Nay-89 09:47 11 / 10:46 9 normal/no significant 10-Nay-89 09:54 11 / 10:46 9 normal/no significant 10-Nay-89 10:50 11 / 10:46 9 normal/no significant 10-Nay-89 10:50 12 / 10:46 9 normal/no significant 10-Nay-89 10:00 12 / 10:46 9 normal/no significant 10-Nay-89 10:00 12 / 10:46 9 normal/no significant 10-Nay-89 10:10 13 / 10:16 9 normal/no significant 10-Nay-89 10:10 13 / 10:15 9 normal/no significant 10-Nay-89 10:23 14 / 10:55 9 normal/no significant 10-Nay-89 10:23 14 / 10:55 9 normal/no significant 10-Nay-89 10:23 14 / 10:55 9 normal/no significant 25-Apr-89 10:23 14 / 10:56 9 normal/no significant 25-Apr-89 16:31 3 / 10:56 9 normal/no significant 27-Jun-89 16:31 3 / 10:55 9 normal/no significant 27-Jun-89 16:31 3 / 10:55 9 normal/no significant 27-Jun-89 16:31 3 / 10:55 9 normal/no significant 27-Jun-89 16:31 3 / 10:56 9 normal/no significant 27-Jun-89 16:32 2 / 10:56 9 normal/no significant 27-Jun-89 16:32 2 / 10:56 9 normal/no significant 27-Jun-89 16:31 3 / 10:56 9 normal/no significant 27-Jun-89 16:32 2 / 10:56 9 normal/no significant 27-Jun-89 16:32 2 / 10:56 9 normal/no sig	Cage		Sex/g /Subg	quor quor	Date Date	and ias En	Time	Study Date	Day/time		signs	/ Comments		
10-May-89   09:32   8   14:10   9   normal/no significant   10-May-89   09:34   9   70:13   9   normal/no significant   10-May-89   09:34   9   70:13   9   normal/no significant   10-May-89   09:40   10   70:25   9   normal/no significant   10-May-89   09:41   10   70:25   9   normal/no significant   10-May-89   09:45   10   70:35   9   normal/no significant   10-May-89   09:45   10   70:35   9   normal/no significant   10-May-89   09:45   11   70:46   9   normal/no significant   10-May-89   09:47   11   70:46   9   normal/no significant   10-May-89   10:06   12   70:26   9   normal/no significant   10-May-89   10:06   12   70:46   9   normal/no significant   10-May-89   10:06   12   70:46   9   normal/no significant   10-May-89   10:10   13   70:26   9   normal/no significant   10-May-89   10:10   13   70:46   9   normal/no significant   10-May-89   10:10   13   70:46   9   normal/no significant   10-May-89   10:10   13   70:46   9   normal/no significant   10-May-89   10:26   14   70:75   9   normal/no significant   25-Apr-89   13:27   1   70:46   9   normal/no significant   25-Apr-89   13:47   2   70:56   9   normal/no significant   25-Apr-89   13:40   1   14:49   9   discriented, midght   25-Apr-89   14:36   4   70:55   9   normal/no significant   25-Apr-89   14:26   4   70:55   9   normal/no significant   25-Apr-89   14:27   4   14:29   9   normal/no significant   25-Apr-89   14:26   4   70:55   9   normal/no significant   25-Apr-89   14:26   4   70:55   9   normal/no significant   25-Apr-89   14:27   4   14:29   9   normal/no signif	21	89A00070			10-Me)	69-	06:30	•	:	• • •	disoriented, st	ight	1	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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				_	01-Mey		14:27	5		Φ.	normal/no signi			

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LETTER DIV OF PRESID	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAW FRANCISCO, CA 94129	ARCH 129	e.	Data Lis	ting S	Raw Data Listings of Clinical Signs Without Masses Study Mumber: 88003F Data Listing by Animal	PRINTED: 03.0ct.89 Page: 50
000/8E/GLE	EJGLE			S	tudy	Study Start Date: 31-Jan-89	SUB-ACUTE/
C 0 4	Animal Sex/group Number /Subgroup	Tim	Study D	Study Day/time O	Oper	Clinical signs / Comments	
	01-May-89		5	11:55		significant	
	01-May-89		· ·	14:15	_	significant	
	01-Mey-89		•	09:03	_	significant	
	01-May-89		9	10:46	<u> </u>	significant	
	01-May-69		01	14:43	_	Significant	
	08-Y48-10		- 1	10:51	_	normal/no significant signs	
	Q1-MBY-80	22:52	- 6	11:32	> 0	moderate	
	49-48M-20		~ (	14:50	_	Significant	
	02-MBY-80		<b>20</b>	10:20		Significant	
	08-74M-50		0	23:11		Significant	
	00 C0		0 0	15:10	· (	Significant S	
	V6 :: H €0		> 0	04:57			
	69-48M-20		•	20:		Spunos Bung	
	02-May-89		6	14:24		I ung sounds,	
	02-May-89	_	10 '	09:15		inud sonuds,	
	02-May-89	15	10 /	11:13		'spunos Gun	
	02-MAY-89	19 15:53	10	14:43	•	congested lung sounds, moderate	
					_		
	03-Hay-89	19 08:11	11 /	08:41	•	congested lung sounds, slight	
	: ;		;				
	40-48H-60	02:80 60	=	11 / 12:30	<b>-</b>	CONTRACTOR CONTRACTOR SOCIETARY SOCIAL SOCIA	
	03-MBY-89	9 08:56	=	11 / 14:00	•		
						slight	
	03-MBY-89	19 08:34	12/		о О	congested lung sounds, slight	
	03-May-89	95:80 6	12.	12:00	•	congested lung sounds, moderate	
						slight	
	03-May-89		12 /	14:43	_		
	03-May-89		13 /	10:00		L ung	
	03-May-89		13 /	11:34	Ф	congested lung sounds, moderate	
	03-May-89	19 09:34	13 /	14:49	•	congested tung sounds, severe	
						inactive, moderate	
			•		•	d, singht	
	03-May-89		14 /	00:00	<u>.</u>	tong sounds,	
	03-May-89	85:60 6	14 /	10:45		congested tung sounds, moderate	

			App	Appendix	D (con	(cont.):	INDIVIDUAL ANIMAL	AL HISTORIES	
DIV	ERMAN ARM Of RES SU IDIO OF S	LETTERMAN ARMY INSTITUTE OF R. DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAW FRANCISCO. CA	LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAM FRANCISCO. CA 94129	ARCH 129	α 8 3	ata List	Raw Data Listings of Clinical Signs Without Masses Study Number: 86008F Data Listing by Animal		PRINTED: 03-Oct-89 Page: 51
/500	DOG/BEAGLE					,	Study Start Date: 31-Jan-89		SUB-ACUTE/
Cage		Sex/group /Subgroup	Animal Sex/group Date and Tim Number /Subgroup Date was Entere	d Time Entered	Study Day/time Oper Data was Taken #	/time Ope Taken #		S	
22		89A00040 F/ 8/2	F/ 8/2 03-May-89 09:4	87:60 6	14 / 10:45	/ 10:45 9			
			OR-MAN-RO	00.5	`		consected tops sounds :	4 4 4 4 5 6 5	
			03-May-89			07:33 9	discharge, s	í	
23	89A00062	F/ 8/3	10-MBY-89	13:2	_		normal/no significant signs	s ub:	
			10-May-89	13:2		10:35	tremors, slight		
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			10-May-89	9 13:32	•			8 CD: 8	
			10-May-69		5 - 7 - 7	10:24	TICANT	8 50 8	
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			10-May-89	14:0	~ \ M				
			10-May-89	14:3	3 / 1		ĭ	signs	
			10-May-89	14:3	0 / 7			signs	
			10-May-89	14:3	- / 3			signs	
			10-May-89	14:3	1 / 4		significant	Bigns	
			10-May-89	14:4	2 / 0		significant si	igns	
			10-May-89	14:4	5 / 1		significant si	igns	
			10-May-85	•	`		significent si	ana.	
			10-May-89	14:5	`		significant si	***************************************	
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LETTERMAN DIV OF RES PRESIDIO O	MAN ARM RES SU 10 OF SA	LETTERMAN ARMY INSTITUTE OF RESEARC DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	SERV GP	RESEARCH P A 94129	<b>.</b>	Ras Cata	isting Da Study	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008f Data Listing by Animal Study Start Date: 31-Jan-89	PRINTED: 03-OCT-89 Page: 52 SUB-ACUTE/
9680	Animal	Sex/group /Subgroup	Date Date	Date and Time	Time	Study Day/time Data was Taken	-	Clinical signs / Comments	
•	•	· · · · · · · · · · · · · · · · · · ·	11-May-89	y-89	12:23	11 / 10:17	•	significant si	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			11-Mey-59	.Y-69 \-89	12:27	12 / 07:01	<b>&gt;</b>	normal/no significant signs normal/no significant signs	
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			11-May-89	98-X	12:37	12 / 14:20	<b>о</b> - о	Significant	
			11-884-69	×-89	12:44	` `	• •	normal/no significant signs	
			11-Mey-89	¥-89	12:47	. ~	•	significant	
			11-May-89	y-89	12:48	`	Φ.		
			11-May-89	y-89	14:14	60 /	<b>о</b> - (	slight	
			-	1-Kay-89	14:17	`	<b>&gt;</b> 0	Significant	
• 70	# * * * * * * * * * * * * * * * * * * *	2	- I I	1-MBY-89	34:35	01:70 / 51	<b>~</b> 0	normal/no significant signs	
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			10·K	y-89	08:30	3 / 07:45	<b>о</b>	moderate	
			10 · K	. A - 89	08:36	3 / 10:35	<b>о</b> . (	significant	
			10-May-89	68-X	08:59	3 / 14:05	<b>~</b> 0	normal/no significant signs	•
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			10-Ma	y-89	08:51	5 / 07:20	<b>o</b>	significant	
			10 K	0-May-89	08:55	`	<b>o</b> - (	significant	
			10. N	0-Mey-89	08:57	5 / 14:29	<b>o</b> - (	significant	
			- O.	U-May-69	¥0:00	` `	> 0	Significant	
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			10-M	0-MBY-89	09:32	0 / 14:10	>	normal/no significant signs	

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LETTE!	LETTERMAN ARMY 11	LETTERMAN ARMY INSTITUTE OF R.	E OF RES	RESEARCH P	<b>T</b>	Res	ata Lis	sting.	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008f	gns Without 08F	<b>X 8 6 6 6</b>	PRINTED: 03-0ct-89 Page: 53
PRESIDIO O DOG/BEAGLE	SAGLE		, co, cA	621.29			,	tudy	Study Start Date: 31-Jan-89	Jan-89		SUB-ACUTE/
C.99e	Animel	Sex/group		<b>Pud</b>	7 inc	Study Day/time	//time 0	De r	/ state le	Cossents		•
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			10-Mey-89		05:60	. `	60:20					
			10-May-89		09:54	_	10:51	_	normal/no significant	icant signs		
			10-May		09:58	`	14:13	_				
			10-Mey-89		10:00	`	07:26	_	normal/no significant			
			10-May		10:04		10:56			80		
			10-May.		10:06	_	15:16	_	normal/no significant	icant signs		
			10-Mey-89		10:10	`	07:49		normal/no significant			
			10-May-		10:14	_	60:01		normal/no significant			
			10-Mey-		10:17	`	15:15		normal/no significant	8		
			10-Mey-		10:19	14 / 0	07:13		soft stool, moderate			
			10-Mey		10:23	`	10:00		normal/no significant	icent signs		
			10-May-89		10:26	`	14:52		normal/no significant			
			10-May-		10:28	15 / 0	07:18		normal/no significant	S		
52	89A00026	F/ 9/1	12-Apr-89		13:22	) / r	05:60	•	normal/no significant	icant signs		
			12-Apr.		13:53	- / -	10:43		disoriented, slight	ght		
			12-Apr		14:02		14:22		disoriented, slight			
			13-Apr.		10:16	7	0:50		normal/no significant			
			13-Apr		10:25	7 7	11:52		normal/no significant	icant signs		
			13-Apr.		10:34	7 / 2	12:40		tremors, slight			
			13-Apr.		10:41	3 / 6	08:04		normal/no significant	icent signs		
			13-Apr.		10:59	3 / 1	0:17		disoriented, slight			
			13-Apr		11:07	3 / 1	14:12		normal/no significant			
			13-Apr.		11:53	) / •	09:25	0	normal/no significant	icant signs		
			13-Apr.		12:03	- / •	10:30		disoriented, moderate			
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			13-Anc	_	12:47	9	60:7		normal/no significant	icant signs		

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LETTERMAN AND DIV OF RES SPRESSOR OF DOG/BEAGLE		PP PATE	NY INSTITUTE OF UPP, PAIN SERV SAN FRANCISCO,	F RES	RESEARCH P A 94129	_	a a	w Data L	istin	Raw Data Listings of Clinical Signs Without Masses Study Number: 88008f Data Listing by Animal Study Start Date: 31-Jan-89	PRINTED: 03-0ct-89 Page: 54 Sub-Acute/
	Animal	Sex/group /Subgroup		; •			Study Data M	Study Day/time Oper Data was Taken #	Oper	Clinical signs / Comments	
			13	13-Apr-89	: -	12:50	~	/ 08:57	•	norgal/no significant signs	
			Ď	3-Apr-89	_	12:55	~	/ 10:26	•	tremors, slight	
			13	3-Apr-89	_	13:02	_	/ 14:51	•	normal/no significant signs	
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			<u>.</u>	-Apr - 89	_	3:33	٥	/ 11:04	•	disoriented, slight	
										tremors, slight	
			17	7-Apr-89	0	8:15		/ 15:11	•	disoriented, slight	
			17	17-Apr-89	0	18:44			Φ.	normal/no significant signs	
			17.	17-Apr-89	0	8:56		/ 11:06	٥	disoriented, slight	
										tremors, moderate	
			17.	17-Apr-89	_	3:29	10	/ 14:30	0	disoriented, slight	
			é	18-Apr-89	_	3:38	=	00:60 /	•	normal/no significant signs	
			ė	8-Apr-89	_	3:43	=	/ 10:52	0	disoriented, slight	
										tremors, slight	
			<u>•</u>	18-Apr-89	_	3:50	Ξ	14:40	٥	normal/no significant signs	
			-0	18-Apr-89	_	3:57	12	7 08:45	•	normal/no significant signs	
			<u>•</u>	8-Apr-89	_	70:5	15	/ 12:15	٥	disoriented, slight	
										tremors, moderate	
			<u>\$</u>	19-Apr-89		3:26	12	/ 14:00	٥	disoriented, slight	
										tremors, slight	
			19.	19-Apr-89	_	3:35	2	/ 08:29	٥.	normal/no significant signs	
			19	19-Apr-89	-	3:48		/ 11:40	•	disoriented, slight	
										tremors, slight	
			9	19-Apr-89	_	7:00	13	/ 14:38	•	normal/no significant sins	
			54.	-Apr-	_	1:15	7.	/ 09:41	٥	normal/no significant signs	
			· <b>5</b> 2	24-Apr-89	_	1:24	2		٥	disoriented, slight	
			54.	24-Apr-89	_	1:32		/ 14:42	0	normal/no significant signs	
			· <b>7</b> 2	24-Apr-89	_	1:37	15	7 08:16	Φ.	normal/no significant signs	
26 8	26 89A00037	F/ 9/2		25-Apr-89	_	3:18	_	75:60 /	•	normal/no significant signs	
			\$	25-Apr-89		3:29	_	/ 10:55	Φ.	circling, moderate	
										disoriented, moderate	
			\$	25-Apr-89	_	3:12	_	/ 14:50	•	disoriented, slight	

		•	Appendix	dix	) Q	(cont.):		INDIVIDUAL AND	ANIMAL	HISTORIES	
LETTE DIV 0	RMAN ARM	LETTERMAN ARMY INSTITUTE OF REDIV OF RES SUPP, PATH SERV GP	RESEARCH	<b>*</b> .	~	W Date L	istin	Raw Data Listings of Clinical Signs & Study Mumber: 88008F	Without	<b>X 0 0 0 0 0 0 0 0 0 0</b>	PRINTED: 03-Oct-89 Page: 55
8/50Q 000/8	DOG/BEAGLE	<b>5</b>	5					Study Start Date: 31-Jan-89	86		SUB-ACUTE/
Cage	Animal	Cage Animal Sex/group Date and	pu•	Time	Study	Study Day/time					
*		Number /Subgroup Date was Entered	MBS En	tered	Data	Data was Taken		Clinical signs / Comments	ments		
79	8	F/ 9/2 25-Api	r-69	13:12	-	/ 14:50		sligh.			
		25-Apr-89		13:48	7	00:80 /		normal/no significant	t signs		
		27- Jun- 89		09:11	~	2 / 11:06	4	tremors, slight			
								disoriented, slight			
		25-Apr-89	r-89	14:02	7	/ 14:05	۰	tremors, slight			
						•		disoriented, slight			
		27-Jui		16:31	•	/ 09:35	4	normal/no significant	t signs		
		27-Jun-89		80:60	m		4	tremors, stight			
								disoriented, moderate	é		
		01-May-89	y-89	14:01	M	/ 14:16	٥	normal/no significant	t signs		
		25-Apr-89		14:36	4	/ 09:30	m	normal/no significant			
		25-Apr-89		14:23	4	/ 13:15	٥	normal/no significant			
		01-May-89		14:22	•	/ 14:31	•	normal/nc significant			
		01-May-69		14:27	~	/ 10:55	•	normal/no significant			
		01-MBY-89		14:37	~	/ 11:55	۰	tremors, slight			
		01-Hay-89	y-89	14:43	•	/ 14:15	•	normal/no significant	t signs		
		01-Hay-89		14:48	•	7 09:04	•	normal/no significant			
		01-Ke		15:00	•	/ 10:47	٥	disoriented, slight			
								tremors, noderate			
								inactive, slight			
		01-May-89		15:09	9	14:43	•	normal/no significant	t signs		
		01-We		15:13	7	/ 10:31	۰	normal/no significant			
		01-May-89		15:23	7	/ 11:32	•	disoriented, slight			
								increased respiration	n depth,	slight	
		02-May-89		14:33	7	/ 14:50	•	disoriented, slight			
								increased respiration		slight	
		02-May		14:39	••	/ 10:24	•	normal/no significant	t signs		
		02-May-89		14:54	•0	/ 11:24	•	disoriented, slight			
								tremors, slight			
								inactive, slight			
		02-May-89		15:04	•	/ 15:17	۰	tremors, slight			
								increased respiration depth,	n depth,	slight	
		02-May-89		15:08	•	/ 09:37		normal/no significant	t signs		
		02-May-89		15:24	•	/ 11:29		tremors, slight			
		02-Me		15:33	•	/ 14:24	٠	normal/no significant			
		02-May-89		15:39	2	/ 09:15	•	normal/no significant	t signs		

LETTERMAM ARMY INSTITUTE OF RESEARC DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE Cage Animal Sex/group Date and R Number / Subgroup Date and 26 89400037 F/ 9/2 02-May-89	LETTERMAN ARMY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP	INSTITU			;	9	Deta t	isting			9
000/8E		P, PATH	SERV GP	RESEARCH	×	D £	] 		Raw Data Listings of Clinical Signs Without Masses Study Number: 88008F	PRINTED: 03-Oct-89 Page: 56	40,13
Cage # 26 f	AGLE	N MARCE	Sco, cA	× 12×	•			Study	Data Listing by Anisal Study Start Date: 31-Jan-89	V - 878	SUB - ACUTE /
26.1		9 9	p Date and	end Iee En	Time	Study (	Study Day/time Data was Taken	Oper	Clinical signs / Comments		
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			02-May-89		15:54	2:	14:43	•			
			03-Mey-69		08:12	==	12:30	<b>&gt;</b>	normal,no signitions signs disoriented, slight		
			03-May-89		08:26	=	14:00	٥	normal/no significant signs		
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			A			3	90:31	•	Cleoling, Boderers		
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			03-May-89		60:60	<u>.</u>	10:00	•	normal/no significant signs		
			03-May-89		09:27	13,	/ 11:35	۰	disoriented, slight		
									tremors, moderate		
									increased respiration depth, slight		
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			04-70		71.00		00.00	o			
			04-X4M-20		07.00	1 1	77.01	• 0			
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			03-May-89		69:55	1 71		٥	normal/no significant signs		
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27 8	89A00060	F/ 9/3	10-May-89		13:20	-	07:30	۰	normal/no significant signs		
			10-May-89		13:26	-	/ 10:37	•	tremors, slight		
			•						_		
			10-May-89		13:32	_	14:08	٥	normal/no significant signs		
			10-May-89		13:35			۰	icant		
			10-Mey-89		13:39		/ 10:24	Φ.			
			10-Mey-89		13:42			•	normal/no significant signs		
			10-May-89		13:43	~	_	Φ.	normal/no significant signs		
			10-May-89		14:10	m	10:15	٥.	tremors, slight		
			10-May-89		• •	m.	14:20	<b>&gt;</b> (	tresors, alight		
			10 - M B Y	- 64	14:36	•	04:70	>	normal/no significant signs		

		App	Appendix	o) a	(cont.):	INDIVIDUAL ANIMAL HISTORIES	S
LETTERMAN ARNY INSTITUTE OF DIV OF RES SUPP, PAIN SERV	INSTITUTION S	E OF RESEARCH ERV GP	ARCH	3 6	Data List	aw Data Listings of Clinical Signs Without Masses Study Number: 88008F	PRINTED: 03-0ct-89 Page: 57
PRESIDIO OF SAN FRANCISCO, CA 94129 90G/BEAGLE	N FRANCIS	76 VJ '0J			St	Data Listing by Animal tudy Start Date: 31-Jan-89	SUB-ACUTE/
Cage Animal	Animal Sex/group Date Number /Subgroup Date	Date and Date was E	· _ w	1		er Clinical	
27 B /A 00060	F/ 9/3	10-May-89	9 14:37	/ 4	10:20	tremors, moderate	
	•	10 - Mey - 89		7	14:00	9 normal/no significant signs	
		10-May-89	•	2 /	07:18	normal/no significant	
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		10-May-89		2 /		normal/no	
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		10-May-89			14:00	normal/no	
		10-May-89			07:36	normal/no significant	
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		10-May-89			14:32	tremors, moderate	
		10-May-89		•	07:13	_	
		10-May-89		6	10:20	_	
						inactive, slight	
		10-May-89			14:07	normal/no	
		11-May-89			07:10	_	
		11-May-89		10		9 inactive, slight	
		11-May-89		10		tremors, slight	
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		11-May-89	19 14:14	14 /	7 09:52	9 inactive, slight	
						tremors, moderate	
		11-May-89		14	/ 15:00	significent	
		11-May-89		-	07:10	normal/no significant	
28 89A00034	F/10/2	25-Apr-89		-	, 10:03	9 normal/no significant signs	

Page 18   Page				Ap.	Ap. andix	D (cont.)		INDIVIDUAL ANIMAL HISTORIE	RIES
### First Date   11-10-06   Comments   ### Entered Date   Date   Date   11-10-06   ### Entered Date   Date   Date   Date   Date   Date   Date   ### Entered Date   Date   Date   Date   Date   #### Entered Date   Date   Date   Date   Date   #### Entered Date   Date   Date   Date   #### Entereed Date   Date   Date   #### Entereed Date   Date   Date   Date   Date   #### Entereed Date   Date   Date   Date   Date   Date   #### Entereed Date   Date   Date   Date   Date   Date   Date   #### Entereed Date	LETTEL DIV OF	PRAN ARR	IY INSTITUTE IPP, PATH SEI	OF RESE	120	Raw Data L	istin	Signs 66008F	
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		Sex /Su	0000	/group Date and bgroup Date was Ent	Time	Study	Study Day/time Oper Data was Taken #	Oper.	Clinical signs / Comments	/ Comments		
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			10-H	10-May-89	10:17	13	/ 15:15	o	normal/no significant	ficant signs		
			10-N	10-May-89	10:19	1,4	/ 07:14	۰	normal/no significant	ficant signs		
			10-M	10-May-89	10:23	7.	/ 10:00	۰	normal/no significant	ficant signs		
			10-N	10-May-89	10:27	14	/ 14:53	•	normal/no significant signs	ficant signs		
			10-M	10-May-89	10:28	15	/ 07:18	۰	normal/no significant	ficant signs		

	App	endix E	: BODY	WEIGH	rs (kg)		
Animal Number	Group	WK-3	Study [ WK-2	Day WK-1	0	7	14
			Males	5			
89A00006	10	11.40	12.00	11.30	11.40	12.10	11.95
89A00044	10	11.90	11.90	12.55	12.20	13.10	12.80
89A00057	10	11.05	10.85	10.50	10.40	10.65	11.00
Mean		11.45	11.58	11.45	11.33	11.95	11.92
Std Dev		0.43	0.64	1.03	0.90	1.23	0.90
SEM		0.25	0.37	0.60	0.52	0.71	0.52
89A00012	1	12.00	12.00	12.10	12.10	12.65	13.00
89A00042		10.60	10.90	11.20	11.00	11.70	11.70
89A00058		10.55	10.20	10.50	10.40	10.50	10.80
Mean		11.05	11.03	11.27	11.17	11.62	11.83
Std Dev		0.82	0.91	0.80	0.86	1.08	1.11
SEM		0.48	0.52	0.46	0.50	0.62	0.64
89A00003	2	11.25	11.25	11.70	11.40	11.50	11.80
89A00009	2	13.00	13.20	13.60	13.00	13.20	13.10
89A00047	2	10.60	10.20	10.35	10.40	10.80	11.00
Mean		11.62	11.55	11.88	11.60	11.83	11.97
Std Dev		1.24	1.52	1.63	1.31	1.23	1.06
SEM		0.72	0.88	0.94	0.76	0.71	0.61
39A00002	3	10.95	10.90	11.60	11.20	11.20	·10.95
39A00045	3	10.00	10.20	10.35	10.50	10.80	11.10
39A00052	3	9.90	9.80	10.10	10.00	10.10	10.30
Mean		10.28	10.30	10.68	10.57	10.70	10.78
Std Dev		0.58	0.56	0.80	0.60	0.56	0.43
SEM		0.33	0.32	0.46	0.35	0.32	0.25
89A00018	4	12.30	12.40	12.30	11.90	12.75	13.15
89A00048	4	10.45	10.40	10.60	11.10	11.00	11.00
89A00056	4	9.72	9.75	10.25	10.70	11.10	10.70
Mean		10.82	10.85	11.05	11.23	11.62	11.62
Std Dev		1.33	1.38	1.10	0.61	0.98	1.34
SEM		0.77	0.80	0.63	0.35	0.57	0.77

	Appendix	E (CC	ont.):	BODY W	EIGHTS	(kg)	
Animal Number	Group	WK-3	Study WK-2	Day WK-1	0	7	14
			Male	s			
89A00004	5	14.35	14.55	14.90	14.10	14.45	15.45
89A00011	5	12.85	13.10	13.00	13.15	13.50	13.05
89A00046	5	10.90	10.60	11.00	11.00	10.70	11.10
Mean		12.70	12.75	12.97	12.75	12.88	13.20
Std Dev		1.73	2.00	1.95	1.59	1.95	2.18
SEM		1.00	1.15	1.13	0.92	1.13	1.26
89A00007	6	10.60	11.20	10.50	10.70	11.45	11.95
89A00050	6	11.10	11.20	11.50	11.60	11.70	12.00
89A00051	6	9.25	9.40	9.30	10.00	9.70	9.80
Mean		10.32	10.60	10.43	10.77	10.95	11.25
Std Dev		0.96	1.04	1.10	0.80	1.09	1.26
SEM		0.68	0.60	0.64	0.46	0.63	0.73
89A00019	7	12.40	12.60	12.10	11.95	12.85	14.65
89A00043	7	9.60	9.85	11.70	11.60	10.10	10.80
89A00054	7	10.80	11.70	11.90	12.30	12.90	13.30
Mean		10.93	11.38	11.90	11.95	11.95	12.92
Std Dev		1.40	1.40	0.20	0.35	1.60	1.95
SEM		0.81	0.81	0.12	0.20	0.93	1.13
89A00001	8	13.65	13.90	13.60	13.60	13.80	14.75
89A00013	8	12.05	12.00	11.70	11.80	12.45	12.65
89A00053	8	10.85	10.70	10.70	10.30	11.40	11.70
Mean		12.18	12.20	12.00	11.90	12.55	13.03
Std Dev		1.40	1.61	1.47	1.65	1.20	1.56
SEM		0.81	0.93	0.85	0.95	0.69	0.90
89A00005	9	12.15	12.20	11.60	11.50	12.60	13.05
89A00049	9	11.10	11.25	10.10	10.00	11.80	12.00
89A00055	9	10.25	10.50	10.30	10.30	10.70	11.00
Mean		11.17	11.32	10.67	10.60	11.70	12.02
Std Dev		0.95	0.85	0.81	0.79	0.95	1.03
SEM		0.55	0.49	0.47	0.46	0.55	0.59

	Appendix I	E (cont.	): BODY	WEIGHTS	(kg)	
Animal Number	Group	St WK-2	udy Day WK-1	0	7	14
		F	emales			
89A00034	10	10.65	10.60	11.60	10.30	10.15
89A00059	10	8.72	8.90	9.10	9.20	8.70
89A00067	10	9.40	9.80	9.85	9.60	9.90
Mean		9.59	9.77	10.18	9.70	9.58
Std Dev		0.98	0.85	1.28	0.56	0.78
SEM		0.57	0.49	0.74	0.32	0.45
39A00022	1	10.90	11.15	10.85	12.10	12.00
39A00038	1	11.30	10.90	10.80	10.60	11.00
39A00072	1	9.60	10.10	10.30	10.10	10.60
Mean		10.60	10.72	10.65	10.93	11.20
Std Dev		0.89	0.55	0.30	1.04	0.72
SEM		0.51	0.32	0.18	0.60	0.42
89A00031	2	13.30	12.85	12.65	12.85	13.25
89A00063	2	10.00	10.00	10.30	10.00	9.85
89A00066	2	10.20	10.30	10.30	10.60	10.90
Mean		11.17	11.05	11.08	11.15	11.33
Std Dev		1.85	1.57	1.36	1.50	1.74
SEM		1.07	0.90	0.78	0.87	1.01
89A00025	3	9.55	9.45	9.20	9.60	10.08
89A00033	3	12.40	12.60	12.80	12.05	-12.35
89A00064	3	10.65	10.75	10.80	11.00	11.20
Mean		10.87	10.93	10.93	10.88	11.21
Std Dev		1.44	1.58	1.80	1.23	1.14
SEM		0.83	0.91	1.04	0.71	0.66
39A00020	4	10.40	10.30	10.30	10.40	10.15
89A00039	4	10.40	10.10	10.85	10.15	10.30
89A00071	4	10.40	11.10	11.20	11.10	11.40
Mean Std Dev 3EM		10.40	10.50 0.53 0.31	10.78 0.45 0.26	10.55 0.49 0.28	10.62 0.68 0.39

	Appendix E	(cont	BODY	WEIGHTS	(kg)	
Animal Number	Group	wK-2	Study Day WK-1	0	7	14
			Females			
89A00027	5	10.30	10.30	10.15	10.05	10.10
89A00065	5	11.05	10.80	10.80	10.70	10.80
89A00069	5	9.80	9.60	9.65	9.60	9.70
Mean		10.38	10.23	10.20	10.12	10.20
Std Dev		0.63	0.60	0.58	0.55	0.56
SEM		0.36	0.35	0.33	0.32	0.32
89A00029 89A00041 89A00061	6 6	12.50 11.10 10.00	12.40 10.75 10.00	12.15 10.55 9.70	12.20 10.45 10.00	12.50 10.80 9.80
Mean		11.20	11.05	10.80	10.88	11.03
Std Dev		1.25	1.23	1.24	1.16	1.37
SEM		0.72	0.71	0.72	0.67	0.79
89A00030	7	11.00	10.55	10.60	10.70	10.60
89A00035	7	11.00	10.60	10.15	10.60	10.95
89A00070	7	9.55	9.50	9.55	9.40	9.30
Mean		10.52	10.22	10.10	10.23	10.28
Std Dev		0.84	0.62	0.53	0.72	0.87
SEM		0.48	0.36	0.30	0.42	0.50
89A00040	8	12.30	12.80	12.15	12.60	13.50
89A00062	8	9.55	10.00	10.00	10.30	9.95
89A00068	8	10.20	9.70	9.80	9.80	10.00
Mean Std Dev SEM		10.68 1.44 0.83	10.83 1.71 0.99	10.65 1.30 0.75	10.90	11.15 2.04 1.18
89A00026	9	9.90	9.25	9.15	9.40	9.80
89A00037	9	11.95	11.10	10.95	11.20	11.45
89A00060	9	10.25	10.70	10.70	11.10	10.40
Mean		10.70	10.35	10.27	10.57	10.55
Std Dev		1.10	0.97	0.98	1.01	0.84
SEM		0.63	0.56	0.56	0.58	0.48

Appendix F: WATER CONSUMPTION (ml/day)

Animal Number	Sex	Sex Group WK-2	WK-2	WK-1	0	Study 1	Day 2	æ	4	5	9	~	14
89 <b>A</b> 00006	Σ	10	940	380		4	37	0	4	0	1040	935	009
89A00044	Σ	10	1020	980	1885	1640	1310	1480	1090	860	1320	009	1290
89A00057	Σ	01	270	405	$\overline{}$	$\sim$	9	400	ਹਾ	9	602	395	S
89A00034	Ŀ	10	800	410	0	~	9	295	9	8	400	260	481
89A00059	لئا	10		642	4	9	$\sim$	450		$\overline{}$	480	785	800
89A00067	ட	10		753	0	2	9	200	9	4	400	380	595
Mean			758	9	737	\ <del></del> -	$-\infty$	969	700	627	707	559	12
Std Dev			337		267	478	448	466	420	261	384	262	296
SEM			169	66	232	9		190	172	107	157	107	2
89A00012	Σ		096	580	270	88	91	86	2760	65	20	$\infty$	97.
89A00042	Σ	_	695	099	1560	18	4	21	1860	9	69	′,	44
89A00058	Σ	~	650	895	099	95	65	34	1720	54	92	0	51
89A00022	Œ	~	740	910	380	54	46	26	1805	00	04	9	28
89A00038	Ŀ		580	310	460	1400	810	1500	1600	350*	1540	1490	1640
89A00072	ĹĿ	7		750	150	09	9	92	1560	9	42	5	14
Mean			725	8	ω	12	( ∞	2017	100	0	100		9
Std Dev			144	224	510	549	959	555	444	448	603	761	343
SEM			64		0	7	9	227	8	Ç	4		4

\* Value is considered to be an outlyer due to procedural errors in water cylinder maintenance. Therefore, it is not included in the group mean or statistical analysis.

Appendix F (cont.): WATER CONSUMPTION (ml/day)

Animal Number	Sex	Sex croup	WK-2	WK-1	0	Study 1	7 Day	~	4	5	9	1.	14
89 <b>A</b> 00003	Σ	2	815	200	285	$\sim$	3359	~	2040	02	14	$\infty$	97
89A00009	Σ	2	880	480	1852	3080	2624	3180	2450	2699	3078	1940	1990
89A00047	Σ	2	350	200	1354	720	2050	$\boldsymbol{\alpha}$	2081	89	00	$\sim$	17
89A00031	ĹĿ	2	1080	915	009	4	3008	0	3065	41	54	4	75
89A00063	ĹĿ	2		882	745	1995	1340	9	1466	94	1	4	49
89 <b>A</b> 00066	لعا	2		780	800	3	165*	9	1620	92	90	×099	40
Mean			781	1	939	2136	7	2495	2120	2147	2461	2173	9
Std Dev			309	205	1.95	784	199	572	581	332	9	793	8
SEM			154	84	231	320	5	234	237	135	277	354	353
89A00002	Σ	М	009	200	435	3.1	63	2390	3.7	0.5	90	$\infty$	9
89A00045	Σ	$\sim$	750	200	1920	90	12	3010	18	22	94	0	4
89A00052	Σ	m	160	006	680	03	46	2467	88	04	96	9	9
89A00025	Ē	٣	280	700	490	64	93	1805	04	98	73	5	8
89A0033	Ē	3	620	009	380	1770	2220	2260	2140	2660	2800	2470	1880
89 <b>A</b> 00064	נבי	е		478	480	03	16	1690	26	9	70	4	2
Mean			602	613	$-\infty$	1808	∣ ∞	1	- ( ∞	10	10	2485	2047
Std Dev			194	164	5.1	297	280	480	327	333	404	517	362
SEM			87	<i>L</i> 9	24.	121		9	$\sim$	$\sim$	9	211	148

\* Value is considered to be an outlyer due to procedural errors in water cylinder maintenance. Therefore, it is not included in the group mean or statistical analysis.

Appendix F (cont.). WATER CONSUMPTION (ml/day)

						Study							
Animal 'iumber	Sex	Sex Group WK-2	<b>W</b> K-2	WK-1	0	-	2,	3	4	5	9	7	14
89A00018	Σ	4	940	122	180		6	0.1	48	25	03	03	0
89A00048	Σ	4	652	520	1500	1060	1450	1255	1145	1410	1180	1180	1160
89A00056	Σ	4	450	465	889	9	ത	59	68	7,5	62	99	7
89A00020	Ŀ	4	460	610	260	7	28	08	44	24	99	75	$\sim$
89A00039	ĹŁ	4	640	400	300	7	9.7	46	15	53	32	65	5
89A00071	œ	4		009	840	9	8 1	29	4	03	71	45	9
Mean			628	100	628	7	100	→	9	10	10	1676	1575
Std Dev			199	297	501	$\sim$	421	357	211	484	302	326	
SEM			68	2	204	5	7	4	9	6	2	133	119
89A00004	Σ	2	840	0	360	$\sim$	83	89	10	44	98	44	9
89A00011	Σ	5	1470	730	260	3007	2268	2920	2600	2220	2200	3010	2000
89A00046	Σ	5	180	~	890		57	17	27	15	44	16	9
89A00027	Ŀ	2	820	0	480	9	59	44	35	48	68	49	7
89A00065	لتر	2		Ā	82c	0	16	48	22	02	72	00	7
89A00069	ĹĿij	5		8	640	4	20	31	52	20	10	50	0
M Co			828	9	1	0	1 ~	1 (1)	~	7.	<u>ري</u>		1 4
Std Dev			527	222	252	794	592	722	749	548	099	821	533
SEM			263	9	0	2	4	9	0	7	9	$\sim$	-

<sup>\*</sup> Value is considered to be an outlyer due to procedural errors in water cylinder maintenance. Therefore, it is not included in the group mean or statistical analysis.

		4	Appendix	[sea	(cont.):		WATER C	CONSUMPTION		(ml/day)	_		
Animal Number	Sex	Sex Group	WK-2	WK-1	0	Study 1	y Day	e	4	5	9	1.	14
89A00007	Σ	9,	7	780	009	63	07	95	30	25	~ ~ ~	52	0
89A00050 89A00051	ΣΣ	م م	979 900	530 80	NK 240	2341 2480	2900 2546	2218 2340	2160 2030	1970 2355	1800 2200	1950 1920	$\frac{1860}{1800}$
89A00029	Ŀ	9	8	910	270	04	56	45	9	82	7	91	5
89A00041	Ŀı	9	0	545	500	63	26	95	24	50	$\infty$	19	8
89A00061	Ĺ	9		009	896	47	94	82	62	97		7.0	9
Mean			150	-	0		2379	000	3	2277	2368	9	2320
Std Dev			407	284	268	627	575	402	580	561	170	703	533
SEM			8		$\sim$		235	9	$\sim$	223	314	$\infty$	218
89A00019	Σ	7	9	9	9	9	$\overline{}$	970	0	~	4	718	1200
89A00043	Σ	7	615	$\boldsymbol{\omega}$	4	7	5	352	8	7	4	550	683
89A00054	Σ	7	7	$\overline{}$	9	7	8	736	$\sim$	$\sim$	9	1300	860
89A00030	يتا	7	4	2	æ	8	$\sim$	039	7	5	$\vdash$	930	602
89A00025	Ŀ	7	4	8 60	009	510	505	530	540	750	009	510	1150
89 <b>A</b> 00070	ഥ	7		,	$\sim$	2	2	947	7	2	$\sim$	009	800
Mean				15	1 00		1 50	10	9	4	763	768	100
Std Dev			209	330	387	353	494	239	302	329	275	301	244
SEM SEM			7.7	7	)	r	)		1	'n	717	777	`

		Ą	Appendix	Ĭ <b>z</b> 4	(cont.):		WATER C	CONSUMPTION		(ml/day)	_		
			WK	X   X   X   X   X   X   X   X   X   X	0	Study Day	Day 2	.~	4	S	9	1.	14
Number	x ac	dno io xac	3_VI	1				,		1			
10000488	Σ	α	780	450	460	240	2010	830	1980	1645	1545	1500	1420
85800013	Σ	000	640	470	1.6.1	1071	1750	1050	096	640	069	620	580
89400053	Σ	000	1025	800	1322	1085	952	715	630	096	1170	089	880
89400040	: 12	000	1040	1320	380	059	1440	1390	1450	1740	3613	880	889
89400062	ı	o 00		705	610	009	535	069	457	615	540	840	368
89 <b>A</b> 00068	ú	သ		260	460	360	520	380	470	280	320	400	200
,			871	668	572	899	1201	836	991	980	1313	820	739
Std Dev			195	373	392	352	630	349	613	593	1211	375	376
SEM SEV			1.6	152	160	i 44	257	143	250	242	495	153	153
500000000	Σ	σ	1320	640	510	615	1380		1310	1220	1270	1395	1 300
8990000	ΞΣ	٦ ٥	307.	620	1850	480	380		500	999	520	495	740
89400055	ΞΣ	n	48C	240	400	170	390	440	320	280	200	2.90	160
8000000	<u>:</u>	no	280	120	250	320	165		310	340	400	340	380
9000000	נו ג	Λσ	240	100	420	520	30*		468	1520	387	410	420
89A00060	- Eri	n 01	; ;	999	420	440	440		311	400	470	580	620
			605	431	642	424	551	488	537	720	591	585	603
Std Day			440	239	598	158	475	203	388	521	337	410	386
SEM			197	16	244	64	213	83	158	213	137	168	145

\* Value is considered to be an outlyer due to procedural errors in water cylinder maintenance. Therefore, it is not included in the group mean or statistical analysis.

## Appendix G: SERUM CHEMISTRY

## List of Serum Chemistry Abbreviations/Units

ALT	Alanine Aminotransferase (U/1)
AST	Aspartate Aminotransferase (U/1)
ALK	Alkaline Phosphatase (U/l)
LDH	Lactate Dehydrogenase (U/1)
GGT	Gamma Glutamyl Transpeptidase (U/1)
CK	Creatine Phosphokinase (U/1)
BILI	Total Bilirubin (mg/dl)
CHOL	Cholesterol (mg/dl)
TRIG	Triglyceride (mg/dl)
URIC	Uric Acid (mg/dl)
TP.	Total Protein (g/dl)
ALB	Albumin (g/dl)
A-G	Albumin/Globulin Ratio
GLU	Glucose (mg/dl)
BUN	Blood Urea Nitrogen (mg/dl)
CR	Creatinine (mg/dl)
CAL	Calcium (mg/dl)
PHOS	Phosphorus (mg/dl)
NA	Sodium (Meq/1)
CL	Chloride (Meq/l)
K	Potassium (Meq/l)
IRON	Iron (μg/dl)
MAG	Magnesium (mg/dl)
NT	Not Taken

				Appendix G	ტ	(cont.):	SERUM	CHEMISTRY			
Animal Sex Group Day Number	Sex	Group	Бау	ALT I	AST	ALK	НОП	GGT	CK	ВІГІ	СНОГ
89 <b>A</b> 00006	Σ	10	-21	9	25.1	44.6	164.0	2.3	145.52	0.00	236.2
89A00044	Σ	10	-19		39.2	95.8	127.1	3.8	307.74	00.0	209.3
89A00057	Σ	10	-20	2	25.5	64.3	198.4	3.6	209.28	00.00	214.8
89A00034	Ţ	10	-15	6	22.0	46.0	0.99	7.4	129.11	00.0	174.3
89A00059	Ŀ	10	-12	<b>—</b>	29.3	82.1	383.2	4.9	336.71	00.0	153.9
89A00067	Ħ	10	-13		23.8	67.9	238.2	5.4	197.61	00.00	269.9
Mean					27.48		196.15	4.57	221.00	0.000	209.73
Std Dev				60.9	6.23	20.04	109. )9	1.76	84.54	0.000	41.76

Mean         St. Group Day         ALIT         AST         ALK         LDH         GGT         CK         B111         CHOL           Number         B9A00012         M         1         -22         43.1         30.7         71.8         137.7         0.6         172.27         0.00         232.9           89A00058         M         1         -20         31.3         26.7         57.0         118.6         3.9         147.29         0.00         232.9           89A00058         M         1         -19         122.0         112.9         79.6         141.4         5.1         746.80         0.00         232.9           89A00038         F         1         -15         17.7         29.8         79.5         395.1         0.4         1841.29         0.00         247.8           89A00003         M         2         -21         33.9         32.6         55.3         12.7         49.5         395.1         0.0         214.8         40.0         160.5           89A00004         M         2         -21         33.9         32.6         55.3         20.1         40.4         41.4         40.0         160.5           89A000045					Appendix	ပ	(cont.):	SERUM CH	CHEMISTRY		1	
00042 M 1 −22 43.1 30.7 71.8 137.7 0.6 172.27 0.00 167.8 00042 M 1 −19 122.0 112.9 79.6 141.4 5.1 246.80 0.00 232.9 00058 M 1 −19 122.0 112.9 79.6 141.4 5.1 246.80 0.00 232.9 00058 F 1 −14 23.9 26.7 58.4 197.8 3.4 213.3 0.00 226.7 00038 F 1 −15 17.7 29.8 73.9 135.9 4.2 315.21 0.00 226.7 00003 M 2 −221 33.9 32.6 55.3 70.03 187.75 2.93 489.32 0.00 264.4 00003 M 2 −221 33.9 32.6 55.3 242.1 4.7 180.68 0.00 244.4 00003 M 2 −22 20.3 24.4 51.3 184.3 1.8 145.46 0.00 244.4 00003 M 2 −12 20.3 24.4 51.3 184.3 1.8 145.46 0.00 244.4 00003 M 2 −12 20.3 24.4 51.3 184.3 1.8 145.46 0.00 24.1 162.6 00003 M 2 −12 20.3 24.4 51.3 184.3 1.8 145.46 0.00 24.1 162.6 00003 M 2 −12 20.3 24.4 51.3 184.3 1.8 145.46 0.00 24.1 162.6 00004 M 2 −12 20.3 24.4 51.3 184.3 1.8 145.46 0.00 24.1 162.6 00003 M 2 −12 20.3 24.4 51.3 184.3 1.8 145.46 0.00 24.1 162.6 00004 M 2 −12 20.3 24.4 51.3 184.3 1.8 145.46 0.00 24.1 162.6 00004 M 2 −12 20.3 24.4 51.3 184.3 1.8 145.46 0.00 24.3 1.2 1.2 1.7 28.9 73.5 155.9 4.5 383.92 0.00 190.2 15.1 160.0 24.1 16	Animal Number	e l	Group	Da	, ,	AST	ALK	ГЪН	GGT	CK	ВІГІ	СНОГ
0042 M 1 -19 122.0 112.9 79.6 141.4 5.1 246.80 0.00 232.9 0058 M 1 -20 30.3 26.7 57.0 118.6 3.9 147.29 0.00 241.8 0058 F 1 -14 23.9 2.4 58.4 197.8 3.4 147.29 0.00 226.7 0003 F 1 -15 17.7 29.8 73.9 135.9 4.2 315.21 0.00 226.7 00072 F 1 -13 37.8 72.7 79.5 395.1 0.4 1841.04 0.00 160.5 00073 M 2 -21 33.9 32.6 55.3 70.03 187.75 2.93 489.32 0.00 264.4 0009 M 2 -22 20.3 24.4 51.3 184.3 1.8 145.46 0.00 215.0 0047 M 2 -19 8.3 0.7 0.03 184.3 1.8 145.46 0.00 215.0 0047 M 2 -12 20.3 24.4 51.3 184.3 1.8 145.46 0.00 215.0 0047 M 2 -12 20.3 24.4 51.3 184.3 1.8 145.46 0.00 215.0 0047 M 2 -12 20.3 24.4 51.3 184.3 1.8 145.46 0.00 215.0 0048 F 2 -13 27.1 31.7 28.9 73.5 155.9 4.8 388.75 0.00 174.1 0066 F 2 -13 27.1 31.7 52.1 371.0 4.8 388.75 0.00 174.1 0045 M 3 -21 38.5 26.9 60.9 131.8 0.5 158.12 0.00 253.7 0046 M 3 -19 27.7 21.4 50.2 92.2 4.4 104.81 0.00 263.9 0052 F 3 -14 31.3 34.4 36.5 20.0 6.2 510.67 0.00 263.9 0055 F 3 -15 25.7 31.5 52.3 203.3 4.9 204.7 0.00 217.1 0064 F 3 -15 25.7 31.5 52.8 20.0 1.1 46.2 163.90 0.00 190.3 0055 W 3 -20 45.5 41.3 56.8 50.0 131.8 397 245.73 0.00 716.9	9 <b>A</b> 0+)01	Σ	-	~	$\sim$	0	7	37.		72.2	0.	67.
0002 F 1 -20 30.3 26.7 57.0 118.6 3.9 147.29 0.00 241.8 00022 F 1 -14 23.9 2.74 58.4 19.7 8 3.4 213.33 0.00 226.7 00022 F 1 -15 37.9 27.4 73.9 135.9 4.2 315.21 0.00 226.7 0002	9A0004	Σ		٢	22.	12.	9.	41.	•	46.8	0.	32.
0002 F 1 -14 23.9 27.4 58.4 i9/.8 3.4 213.33 0.00 197.2 0008 F 1 -15 17.7 29.8 73.9 i35.9 4.2 315.21 0.00 226.7 00072 F 1 -13 37.8 72.7 79.5 395.1 0.4 1841.04 0.00 226.7 00072 F 1 -13 37.8 72.9 395.1 0.4 1841.04 0.00 226.7 00073 M 2 -22 20.3 70.03 70.03 187.75 2.93 489.32 0.000 244.4 00009 M 2 -19 38.3 0.00 1841.3 0.00 1841.4 0.0009 M 2 -12 20.3 24.4 51.3 1841.3 1.8 145.46 0.00 215.0 0001 F 2 -19 38.3 0.00 100.5 0001 F 2 -14 35.7 43.2 60.4 152.6 2.8 945.38 0.00 215.0 0001 F 2 -12 21.7 28.9 73.5 155.9 4.5 363.92 0.00 191.1 0006 F 2 -13 21.7 28.9 73.5 155.9 4.5 363.92 0.00 191.1 0006 F 2 -13 21.7 28.9 73.5 155.9 4.5 363.92 0.00 191.1 0006 M 3 -21 21.7 28.9 73.5 155.9 4.5 363.92 0.00 191.1 0006 M 3 -21 21.7 28.9 73.5 155.9 4.5 363.92 0.00 191.1 0006 M 3 -21 21.7 28.9 73.5 155.9 4.5 363.92 0.00 191.1 0006 M 3 -20 44.3 5.2 6.9 60.9 131.8 0.5 158.12 0.00 217.1 0006 M 3 -19 27.7 21.4 50.2 9.84 93.97 1.24 309.40 0.00 217.1 0006 M 3 -12 25.7 31.5 52.3 203.3 4.9 204.72 0.00 217.7 0006 M 3 -15 29.8 28.8 57.1 61.5 4.2 163.90 0.00 217.7 0006 M 3 -15 29.8 28.8 57.1 61.5 3 203.3 4.9 204.72 0.00 217.7 0006 M 7.5 0.00 71.7 1.2 4.2 163.90 0.00 71.7 7.5 0.00 71.7 1.2 4.2 163.90 0.00 71.7 7.5 0.00 71.7 7.5 0.00 71.7 7.5 0.00 71.8 7.5 0.00 71.7 7.5	9A0005	Σ	-	2	0	26.	7	18.	•	47.2	0.	41.
0072 F 1 -15 17.7 29.8 73.9 135.9 4.2 315.21 0.00 226.7 79.5 395.1 0.4 1841.04 0.00 160.5 60.00	9A0002	Ĺτί	-	$\overline{}$	3.	7.	$^{\circ}$	9.	•	13.3	0.	97.
OOO 2         M         37.8         72.7         79.5         395.1         0.4         1841.04         0.00         160.5           OOO 3         M         45.80         50.03         70.03         187.75         2.93         489.32         0.000         204.7           OOO 3         M         2         -21         33.9         32.6         55.3         242.1         4.7         180.68         0.00         20.00         34.7           OOO 3         M         2         -22         20.3         24.4         51.3         184.3         1.8         145.46         0.00         215.00         34.7           OOO 47         M         2         -22         20.3         24.4         51.3         184.3         1.8         145.46         0.00         184.4           OOO 31         F         2         -14         35.7         43.2         60.4         152.6         2.8         945.38         0.00         184.3         0.00         184.3         0.00         184.3         0.00         184.3         0.00         184.3         0.00         184.3         0.00         184.3         0.00         184.3         0.00         184.3         0.00         184.3<	9A0003	Ŀı	<b>~</b>	$\vdash$	7.	6	$\tilde{S}$	35.	•	15.2	0.	26.
Dev 38.44 35.51 10.04 105.09 1.97 664.82 0.000 204.7 38.44 35.51 10.04 105.09 1.97 664.82 0.000 34.7 34.7 38.44 35.51 10.04 105.09 1.97 664.82 0.000 34.7 34.7 38.44 35.51 10.04 105.09 1.97 664.82 0.000 184.4 0.000 M 2 -22 20.3 24.4 51.3 184.3 18.8 145.6 0.00 121.3 2 0.001 184.4 0.003 F 2 -12 21.7 28.9 73.5 155.9 4.5 363.92 0.000 191.1 0.066 F 2 -13 27.1 31.7 52.1 371.0 4.8 388.75 0.00 191.1 0.066 F 2 -13 27.1 31.7 52.1 371.0 4.8 388.75 0.00 191.1 0.00	9 <b>A</b> 0007	Ъ	1		7 .	2.	9.	95.	•	841.0	0.	. 09
Dev         38.44         35.51         10.04         105.09         1.97         664.82         0.000         34.7           DO03         M         2         -21         33.9         32.6         55.3         242.1         4.7         180.68         0.00         184.4           DO047         M         2         -22         20.3         24.4         51.3         184.3         1.8         145.46         0.00         215.9           DO047         M         2         -19         8.3         0.7         45.0         106.6         3.0         121.32         0.00         215.9           DO047         M         2         -19         35.7         43.2         60.4         152.6         2.8         945.38         0.00         215.1           DO06         F         2         -13         27.1         31.7         52.1         371.0         4.8         388.75         0.00         191.1           Dev         M         3         -21         31.7         52.1         371.0         4.8         388.75         0.00         191.1           Dov         M         3         2         2         2         2         2	Mean				5.8	0.0	0.0	87.7	6.	89.3	0.	04.4
0003         M         2         -21         33.9         32.6         55.3         242.1         4.7         180.68         0.00         184.4           0009         M         2         -22         20.3         24.4         51.3         184.3         1.8         145.46         0.00         215.0           0047         M         2         -19         8.3         0.7         45.0         106.6         3.0         121.32         0.00         163.5           0063         F         2         -14         35.7         28.9         73.5         155.9         4.5         363.92         0.00         163.5           0066         F         2         -12         21.7         28.9         73.5         155.9         4.5         363.92         0.00         191.1           0066         F         2         -13         27.1         31.7         52.1         371.0         4.8         388.75         0.00         191.1           Dev         3         -21         36.20         26.27         202.08         3.60         357.59         0.00         190.1           00045         M         3         -21         38.8         41.27<	)e				8.4	5.5	0.0	0.50	6.	64.8	0.	34.7
00009 M 2 -22 20.3 24.4 51.3 184.3 1.8 145.46 0.00 215.0 0047 M 2 -19 8.3 0.7 45.0 106.6 3.0 121.32 0.00 163.5 00031 F 2 -14 35.7 43.2 60.4 152.6 2.8 945.38 0.00 2.5.1 0066 F 2 -12 21.7 28.9 73.5 155.9 4.5 363.92 0.00 191.1 0066 F 2 -13 27.1 31.7 52.1 371.0 4.8 388.75 0.00 191.1 0066 F 2 -13 27.1 31.7 52.1 371.0 4.8 388.75 0.00 191.1 0002 M 3 -21 38.5 26.92 56.27 202.08 3.60 357.59 0.00 190.5 00045 M 3 -21 38.5 26.9 60.9 131.8 0.5 158.12 0.00 217.1 0045 M 3 -19 27.7 21.4 50.2 92.2 4.4 104.81 0.00 233.7 0000 233.7 0003 F 3 -15 29.8 57.1 61.5 4.2 163.90 0.00 193.3 0004 F 3 -15 29.8 57.3 203.3 4.9 204.72 0.00 217.7 0064 F 3 -12 25.7 31.5 52.6 3 121.83 3.97 245.73 0.000 217.4 0000 217.7 00045 M 3.000 217.8 0.000 35.0 0000 217.8 0.000 217.8 0.000 217.8 0.000 217.7 0000 217.8 0.000	9 <b>A</b> 0000	Σ	2	~	~	2.	5.	42.	•	80.6	0.	84.
0047 M 2 -19 8.3 0.7 45.0 106.6 3.0 121.32 0.00 163.5 0.031 F 2 -14 35.7 43.2 60.4 152.6 2.8 945.38 0.00 2:5.1 0.063 F 2 -12 21.7 28.9 73.5 155.9 4.5 363.92 0.00 191.1 0.066 F 2 -13 27.1 31.7 52.1 371.0 4.8 388.75 0.00 191.1 0.066 F 2 -13 27.1 31.7 52.1 371.0 4.8 388.75 0.00 191.1 0.066 F 2 -13 27.1 31.7 52.1 371.0 4.8 388.75 0.00 190.5 0.00 190.5 0.002 M 3 -21 38.5 26.9 60.9 131.8 0.5 158.12 0.00 217.1 0.005 M 3 -20 45.5 41.3 58.8 96.0 6.2 510.67 0.00 233.7 0.005 M 3 -15 29.8 57.1 61.5 4.2 163.90 0.00 193.3 0.006 F 3 -12 25.7 31.5 52.3 203.3 4.9 204.72 0.00 217.7 0.006 M 3.0.72 52.63 121.83 3.97 245.73 0.000 214.4 0.0000 214.4 0.0000 214.4 0.0000 214.4 0.0000 214.4 0.0000 214.4 0.0000 214.4 0.0000 214.4 0.0000 214.4 0.0000 214.4 0.0000 214.4 0.0000 214.4 0.0000 214.4 0.0000 214.4 0.0000 214.4 0.00000 214.4 0.000000000000000000000000000000000	9 <b>A</b> 0000	Σ	2	$\sim$	0	4.	<u>,</u>	84.	•	45.4	0.	15.
0003 F 2 -14 35.7 43.2 60.4 152.6 2.8 945.38 0.00 2:5.1 0063 F 2 -12 21.7 28.9 73.5 155.9 4.5 363.92 0.00 191.1 0066 F 2 -13 27.1 31.7 52.1 371.0 4.8 388.75 0.00 191.1 0066 F 2 -13 27.1 31.7 52.1 371.0 4.8 388.75 0.00 191.1 0062 M 3 -21 38.5 26.92 56.27 202.08 3.60 357.59 0.000 190.5 0045 M 3 -21 38.5 26.9 60.9 131.8 0.5 158.12 0.00 217.1 0052 M 3 -20 45.5 41.3 58.8 96.0 6.2 510.67 0.00 233.7 0055 M 3 -15 29.8 28.8 57.1 61.5 4.2 163.90 0.00 193.3 0064 F 3 -12 25.7 31.5 52.3 203.3 4.9 204.72 0.00 217.7  S3.08 30.72 52.63 121.83 3.97 245.73 0.000 214.4 0060 35.0	9 <b>A</b> 0004	Σ	2	$\leftarrow$		0	5.	06.		21.3	0.	63.
0063       F       2       -12       21.7       28.9       73.5       155.9       4.5       363.92       0.00       191.1         0066       F       2       -13       27.1       31.7       52.1       371.0       4.8       388.75       0.00       174.1         24.50       26.92       56.27       202.08       3.60       357.59       0.00       190.5         0002       M       3       -21       38.5       26.9       60.9       131.8       0.5       158.12       0.00       217.1         0045       M       3       -29       45.5       41.3       58.8       96.0       6.2       510.67       0.00       233.7         0025       F       3       -14       31.3       34.4       36.5       146.2       3.6       332.16       0.00       217.1         0033       F       3       -15       29.8       58.8       96.0       6.2       510.67       0.00       217.7         0064       F       3       -12       25.7       31.5       52.3       203.3       4.9       204.72       0.00       217.7         33.08       30.72       52.63       12	9 <b>A</b> 0003	[£,	2	$\vdash$	5.	ж Э	0	52.	•	45.3	0.	15.
0066       F       2       -13       27.1       31.7       52.1       371.0       4.8       388.75       0.00       174.1         24.50       26.92       56.27       202.08       3.60       357.59       0.000       190.5         Dev       10.08       14.27       9.84       93.97       1.24       309.40       0.000       190.5         0002       M       3       -21       38.5       26.9       60.9       131.8       0.5       158.12       0.000       217.1         0045       M       3       -21       38.5       26.9       60.9       131.8       0.5       158.12       0.00       217.1         0052       M       3       -20       45.5       41.3       58.8       96.0       6.2       510.67       0.00       217.1         0025       F       3       -14       31.3       34.4       36.5       146.2       3.6       332.16       0.00       20.00       217.1         0064       F       3       -12       25.7       31.5       52.3       203.3       4.9       204.72       0.00       217.7         0064       F       3       -12 <t< td=""><td>9<b>A</b>0006</td><td>Ŀı</td><td>7</td><td>┛</td><td>Ϊ.</td><td>8</td><td>۳,</td><td>55.</td><td></td><td>63.9</td><td>0.</td><td>91.</td></t<>	9 <b>A</b> 0006	Ŀı	7	┛	Ϊ.	8	۳,	55.		63.9	0.	91.
Dev 10.08 14.27 202.08 3.60 357.59 0.000 190.5 1.000 190.5 1.000 14.27 9.84 93.97 1.24 309.40 0.000 21.1 0.005 M 3 -21 38.5 26.9 60.9 131.8 0.5 158.12 0.00 245.9 0.005 M 3 -20 45.5 41.3 58.8 96.0 6.2 510.67 0.00 263.9 0.005 F 3 -14 31.3 34.4 36.5 146.2 3.6 332.16 0.00 193.3 0.003 F 3 -15 29.8 28.8 57.1 61.5 4.2 163.90 0.00 160.9 0.00 160.9 0.004 F 3 -12 25.7 31.5 52.3 203.3 4.9 204.72 0.00 217.7 0.00 217.7 0.0064 F 3 -12 25.7 31.5 52.63 121.83 3.97 245.73 0.000 214.4 0.	9 <b>A</b> 000 <b>6</b>	កែ	7	$\leftarrow$	7.	1.	2 .	71.	•	88.7	0.	74.
Dev       10.08       14.27       9.84       93.97       1.24       309.40       0.000       21.11         0002       M       3       -21       38.5       26.9       60.9       131.8       0.5       158.12       0.00       217.1         0045       M       3       -20       45.5       41.3       50.2       92.2       4.4       104.81       0.00       263.9         0052       M       3       -20       45.5       41.3       58.8       96.0       6.2       510.67       0.00       263.9         0025       F       3       -14       31.3       34.4       36.5       146.2       3.6       332.16       0.00       263.3         0033       F       3       -15       29.8       57.1       61.5       4.2       163.90       0.00       217.7         0064       F       3       -12       25.7       31.5       52.3       203.3       4.9       204.72       0.00       214.4         Dev       7.50       6.80       8.86       50.03       1.91       150.72       0.000       214.4	Mean				4.5	6.9	6.2	02.0	9.	57.5	00.	90.5
0002     M     3     -21     38.5     26.9     60.9     131.8     0.5     158.12     0.00     217.1       0045     M     3     -19     27.7     21.4     50.2     92.2     4.4     104.81     0.00     263.9       0052     M     3     -20     45.5     41.3     58.8     96.0     6.2     510.67     0.00     233.7       0025     F     3     -14     31.3     34.4     36.5     146.2     3.6     332.16     0.00     193.3       0033     F     3     -15     29.8     57.1     61.5     4.2     163.90     0.00     217.7       0064     F     3     -12     25.7     31.5     52.3     203.3     4.9     204.72     0.00     214.4       Dev     7.50     6.80     8.86     50.03     1.91     150.72     0.000     35.0	De				0.0	4.2	9.8	93.9	. 2	09.4	00.	21.1
0045 M 3 -19 27.7 21.4 50.2 92.2 1.4 104.81 0.00 263.9 2052 M 3 -20 45.5 41.3 58.8 96.0 6.2 510.67 0.00 233.7 0025 F 3 -14 31.3 34.4 36.5 146.2 3.6 332.16 0.00 193.3 0033 F 3 -15 29.8 28.8 57.1 61.5 4.2 163.90 0.00 160.9 0064 F 3 -12 25.7 31.5 52.3 203.3 4.9 204.72 0.00 217.7 25.7 31.5 52.63 121.83 3.97 245.73 0.000 214.4 Dev	980000	Σ	m	~	ω,	9	0	31.	•	58.1	0.	17.
0052 M 3 -20 45.5 41.3 58.8 96.0 6.2 510.67 0.00 233.7 0025 F 3 -14 31.3 34.4 36.5 146.2 3.6 332.16 0.00 193.3 0033 F 3 -15 29.8 28.8 57.1 61.5 4.2 163.90 0.00 160.9 0064 F 3 -12 25.7 31.5 52.3 203.3 4.9 204.72 0.00 217.7 33.08 30.72 52.63 121.83 3.97 245.73 0.000 214.4 Dev	9A0004	Σ	m		7	7	0	92.	•	04.8	0.	63.
0025 F 3 -14 31.3 34.4 36.5 146.2 3.6 332.16 0.00 193.3 0.033 F 3 -15 29.8 28.8 57.1 61.5 4.2 163.90 0.00 160.9 0.064 F 3 -12 25.7 31.5 52.3 203.3 4.9 204.72 0.00 217.7 0.00 217.7 0.00 6.80 8.86 50.03 1.91 150.72 0.000 35.0	9 <b>A</b> 0005	Σ	e	7	5.	7	8	9	•	10.6	٥.	33.
0033 F 3 -15 29.8 28.8 57.1 61.5 4.2 163.90 0.00 160.9 0064 F 3 -12 25.7 31.5 52.3 203.3 4.9 204.72 0.00 217.7 33.08 30.72 52.63 121.83 3.97 245.73 0.000 214.4 Dev	9A3002	Ĺų	m	$\vdash$	<u>;</u>	4.	9	46.	•	32.1	0.	93.
0064 F 3 -12 25.7 31.5 52.3 203.3 4.9 204.72 0.00 217.7 33.08 30.72 52.63 121.83 3.97 245.73 0.000 214.4 Dev 7.50 6.80 8.86 50.03 1.91 150.72 0.000 35.0	9A3003	Ŀı	m	٦	ъ 9	α	7 .	61.	٠	63.9	0.	60.
33.08 30.72 52.63 121.83 3.97 245.73 0.000 214.4 7.50 6.80 8.86 50.03 1.91 150.72 0.000 35.0	9 <b>A</b> 000 <b>6</b>	Ĺų	М	٦	5.	1.	2.	03.	•	04.7	0.	17.
Dev 7.50 6.80 8.86 50.03 1.91 150.72 0.000 35.0	Mean				3.0	0.7	2.6	21.8	6.	45.7	1 .	14.4
	Ω				7.5	6.8	8.8	50.0	6.	50.7	•	5.0

SERUM

(cont.):

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197.63 47.27 191.20 30.36 206.20 210.7 277.6 160.4 193.6 202.3 234.6 173.0 203.4 185.7 143.5 207.0 240.6 247.6 177.0 193.0 197.5 181.5 CHOL 0.000 0.0000 0.008 00.00 0.00 BILI 179.26 240.67 97.79 153.28 473.76 268.61 235.56 131.74 229.94 253.57 134.77 322.25 191.46 159.97 215.33 68.16 355.73 153.75 185.72 102.99 215.99 358.34 228.75 106.18 CK 3.42 4.47 3.85 1.4 0.2 4.5 4.6 4.5 3.7 4.4 6.2 3.4 4.2 3.1 4.8 5.8 2.6 1.7 GGT 134.60 38.86 127.93 83.46 180.38 84.75 142.8 199.7 124.7 85.7 109.3 1110.2 332.5 1137.8 205.6 188.8 272.3 124.4 129.9 61.4 32.2 LDH 57.22 8.29 75.38 74.37 17.13 00.1 66.0 46.2 84.5 89.4 89.3 71.2 53.8 58.0 97.6 76.3 69.2 51.2 60.2 45.2 57.1 66.1 ALK 42.07 23.92 39.07 36.77 36.67 15.71 31.5 37.0 109.3 33.0 0.8 26.2 31.8 89.8 29.0 34.7 39.7 25.4 67.1 27.3 31.1 29.4 AST 52.98 52.62 57.10 67.21 3.90 24.2 51.2 100.6 27.0 34.5 25.9 23.3 40.3 159.7 28.9 36.2 29. 25.4 48.3 192.8 29.0 20.1 26.4 43. -22 -19 -20 -14 -15 -21 -22 -19 -14 -12 -21 -19 -20 -14 -15 Group Day 000000 22222 444444 Sex ΣΣΣωωω ΣΣΣμμμ ΣΣΣωωω 89A00039 89A00071 89A00056 89A00020 89A00046 89A00027 89A00050 89A00029 89A00018 89A00048 89A00004 89A00011 89A00065 89A00069 89A00007 E9A00051 89A00041 89A00061 Animal Std Dev Std Dev Std Dev Number Mean Mean Mean

CHEMISTRY
SERUM
(cont.
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Appendix

Animal	Sex	Group	Day	ALT	AST	ALK	Грн	GGT	CK	BILI	СНОГ
1											
9 <b>A</b> 0001	Σ	7	7	9	φ.	8	28.	•	98.3	0.	94.
9A0004	Σ	7	┙	ж	3.	ж	40.	•	83.7	0.	46.
9A0005	Σ	7	2	5.	2	7.	13.	•	14.4	0.	45.
9A0003	(E)	7	$\vdash$	2.	0	4.	76.	•	24.7	0.	32.
89A00035	Œ	7		26.6	26.9	51.1	114.5	4.2	189.65	00.00	185.1
9 <b>A</b> 0007	ſч	7	-13	0.	9	1.	76.	•	11.6	0.	65.
Mean				4.	6.	6.1	08.3	4.	70.4	•	4.8
Std Dev				6.68	2.71	16.71	101.68	0.92	100.83	0.000	38.09
9 <b>A</b> 0000	Σ	80	2	ω,	9	6	83.	•	09.4	0.	24.
9 <b>A</b> 0001	Σ	8	N	9	4.	2.	7.	•	37.0	0.	78.
89A00053	Σ	æ	$\sim$		34.9	6.99	6.06	5.2	235.80	00.0	218.2
9A0004	Œ	∞	$\vdash$	7.	7.	2	57.	٠	10.3	0.	73.
9 <b>A</b> 0006	Ŀ	8	~	2.	و	ω	0	٠	64.6	0.	79.
9 <b>4</b> 0006	[£4	8	-13	9	9.	7.	69	•	70.9	0.	67.
Mean				9.6	1.8	2.8	3.2	9.	48.0	00.	0.1
Std Dev				28.59	13.97	12.33	54.68	1.58	103.54	0.000	24.50
9 <b>A</b> 0000	Σ	6	2		2	S	93.	•	88.2	0.	90.
9A0004	Σ	6	-	9.	6.	7	22.	•	9.7	O	33.
89A00055	Σ	9	-20	31.9	31.9	62.9	87.1	5.2	70	00.0	181.7
9A0002	[E4	6	$\leftarrow$	4.	2.	5.	12.	•	56.7	0.	05.
9A0003	ኔፈ	σ	~	2	5.	4 .	01.	•	2.6	0.	90.
9 <b>A</b> 0006	Ĺ	<b>o</b>	⊣	;	1.	2.	28.	•	72.4	0.	86.
Mean				0.3	4.8	m	7.5	5.12	300.12	0.000	181.43
Std Dev				21.54	11.35	10.51	91.65	. 5	16.4	•	4.9

8.000.8 8.000.8 9.000.8 CR18.55 4.23 20.1 22.5 18.1 13.0 14.3 23.3 BUN 93.55 71.0 96 4 102.0 89.8 96.4 GLUCHEMISTRY 1.13 1.2 0.8 1.1 1.6 0.9 h-G 3.15 SERUM 3.3 3.1 3.6 3.6 3.2 4LB 6.03 6.1 6.1 5.9 6.2 6.0 (cont.):  $\mathrm{TP}$ 0.20 URIC 0.3 G Appendix 46.2 TRIG 63 54 31 40 21 68 Day -21 -20 -20 -15 -12 Group 10 10 10 10 10 Sex ΣΣΣμμμ 89A0006 89A00044 89A00057 89A00034 89A00059 Mean Std Dev Animal Number

Muniber         Sex Group Day         TRIG         URIC         TP         ALB         A-G         GLU         BUN         CR           99A00012         M.         1         -22         46         0.3         5.1         2.7         1.2         69.1         21.4         0.7           99A00042         M.         1         -19         36         0.2         6.1         3.5         1.3         92.7         23.9         0.8           99A00042         M.         1         -19         36         0.2         6.1         3.5         1.3         92.7         23.9         0.8           99A00042         M.         1         -16         36         0.2         6.6         3.9         1.0         74.1         15.3         0.8           99A00042         M.         1         -15         36         0.2         6.6         3.9         1.4         40.2         0.8           99A00045         M.         2         -21         52         0.0         0.52         0.13         0.19         0.52         0.13         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1 <th></th> <th></th> <th></th> <th>i</th> <th>Appendix</th> <th>ဖ</th> <th>(cont.):</th> <th>SERUM CH</th> <th>CHEMISTRY</th> <th></th> <th></th> <th></th>				i	Appendix	ဖ	(cont.):	SERUM CH	CHEMISTRY			
0012 M 1 -22 46 0.3 5.1 2.7 1.2 69.1 21.4 0.8 0042 M 1 -19 36 0.2 6.1 3.5 1.3 92.7 23.9 0.8 0058 M 1 -19 36 0.2 6.6 3.3 1.0 102.0 23.9 0.8 0058 F 1 -15 36 0.1 6.6 3.3 1.4 80.3 13.2 0.8 0072 F 1 -15 36 0.1 5.6 3.1 1.3 94.8 24.6 0.8 0003 M 2 -21 52 0.4 0.09 0.52 0.33 0.19 12.93 5.77 0.0 00047 M 2 -12 31 0.4 6.6 6.1 3.5 1.3 10.5 7 22.3 0.8 0018 F 2 -12 28 0.1 6.6 6.1 3.5 1.3 10.5 7 22.3 0.8 0019 F 2 -12 28 0.3 6.8 3.3 1.2 0.8 6.8 27.7 0.0 0005 M 3 -21 80 0.4 6.6 3.3 3.4 1.1 105.7 22.3 0.8 0005 M 3 -20 48 0.3 6.8 3.5 1.3 10.8 86.82 5.19 0.0 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 0.9 0.9 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 0.9 0.9 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 0.9 0.9 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 0.9 0.9 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 0.9 0.9 0005 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 0.9 0.9 0006 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 0.9 0.9 0007 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 0.9 0.9 0008 M 3 -20 48 0.3 6.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Animal Number	(1)	Group	i I		URIC	ТР	ALB	A-G	CLU	BUN	CR
0058 M 1 -19 36 0.2 6.1 3.5 1.3 92.7 23.9 0.8 0.8 0.5 8 M 1 -20 70 0.3 6.2 3.9 1.0 10.8 10.0 1.0 1.4 15.3 0.8 0.8 0.3 1.1 1.3 1.2 1.4 15.3 0.8 0.3 1.2 1.4 1.3 13.2 0.8 0.8 0.3 1.2 1.3 13.2 0.8 0.8 0.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1	9 <b>A</b> 0001	Σ	-	~	46	•		•	•	9		•
0022 F 1 -20 70 0.3 6.2 2.9 0.9 102.0 28.2 0.8 0022 F 1 -14 34 0.2 6.6 3.3 1.0 74.1 15.3 0.8 0022 F 1 -15 36 0.1 6.0 3.3 1.0 74.1 15.3 0.8 0072 F 1 -15 82 0.1 5.6 3.1 1.3 94.8 24.6 0.8 0073 F 1 -13 82 0.1 5.6 3.1 1.3 94.8 24.6 0.8 0073 M 2 -22 31 0.4 0.09 0.52 0.33 0.19 12.93 5.77 0.0 0073 F 2 -12 31 0.4 6.6 3.4 1.1 105.7 22.3 0.8 0073 F 2 -12 28 0.1 5.9 3.5 1.3 75.4 17.0 0.0 0074 M 2 -12 28 0.1 5.9 3.5 1.3 75.4 17.0 0.0 0075 F 2 -13 28 0.1 5.9 3.5 1.5 74.4 21.0 0.8 0076 F 2 -13 28 0.1 6.1 3.5 1.3 100.8 27.7 0.8 0077 M 3 -21 80 0.4 6.6 3.5 1.3 100.8 27.7 0.8 0078 M 3 -21 80 0.4 6.6 3.5 1.1 89.4 21.2 0.8 0079 F 3 -15 50 0.2 6.2 4.0 1.8 86.2 24.1 0.8 0079 M 3 -15 50 0.2 6.2 4.0 1.8 86.2 24.1 0.8 0079 M 3 -15 50 0.2 6.2 4.0 1.8 86.5 15.4 0.8 0079 M 3 -15 50 0.2 6.2 4.0 1.8 86.5 15.4 0.8 0079 M 3 -15 50 0.2 6.2 4.0 1.8 86.5 15.4 0.8 0079 M 3 -15 50 0.2 6.2 4.0 1.8 86.5 15.4 0.8 0079 M 3 -15 50 0.2 6.2 4.0 1.8 86.5 15.4 0.8 0079 M 3 -15 50 0.2 6.2 4.0 1.8 86.5 15.4 0.8 0079 M 3 -15 50 0.2 6.2 4.0 1.8 86.5 15.4 0.8 0079 M 3 -15 50 0.2 6.2 4.0 1.8 86.5 15.4 0.8	9A0004	Σ	-	-	36	•			•	2	æ,	•
D022 F 1 -14 34 0.2 6.6 3.3 1.0 74.1 15.3 0.8  D038 F 1 -15 36 0.1 5.6 3.1 1.4 80.3 13.2 0.8  D072 F 1 -15 36 0.1 5.6 3.1 1.3 94.8 24.6 0.8  D073 M 2 -22	9A0005	Σ	<b>,</b> ⊶	$\sim$	7.0	•	•	•	•	02.	ω.	•
D072 F 1 -15 36 0.1 6.0 3.5 1.4 80.3 13.2 0.8 0.7 0.8 0.0 0.1 5.6 3.1 1.3 94.8 24.6 0.8 0.8 0.0 0.2 0.8 0.1 1.3 94.8 24.6 0.8 0.8 0.0 0.1 0.7 0.0 0.7 0.0 0.2 0.8 0.1 0.1 0.1 0.1 0.7 0.0 0.7 0.0 0.8 0.2 0.3 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	9A0002	<b>[*4</b>	H	_	34	•	•	•	•	4.	5.	•
DO72 F 1 -13 82 0.1 5.6 3.1 1.3 94.8 24.6 0.8  DO84  NO03 M 2 -21 52 0.6 6.1 3.5 1.1 1.18 85.50 21.10 0.7  DO09 M 2 -22 31 0.4 6.6 3.4 1.1 75.9 12.9 5.77 0.0  DO09 M 2 -19 31 0.2 6.5 3.4 1.1 105.7 22.3 0.8  DO09 F 2 -19 31 0.2 6.5 3.4 1.1 105.7 22.3 0.8  DO09 F 2 -19 31 0.2 6.8 3.4 1.1 105.7 22.3 0.8  DO09 F 2 -12 28 0.1 5.9 3.5 1.5 74.4 21.0 0.8  DO09 F 2 -12 28 0.1 6.1 3.5 1.3 100.8 87.7 22.9 0.8  DO09 M 3 -21 80 0.4 6.6 3.5 1.1 61.9 27.7 0.8  DO09 M 3 -21 80 0.4 6.6 3.5 1.1 61.9 21.4 0.7  DO09 M 3 -21 80 0.4 6.6 3.5 1.1 61.9 21.4 0.7  DO09 M 3 -19 54 0.3 6.4 3.2 1.0 108 86.2 24.1  DO09 M 3 -15 50 0.2 6.2 4.0 1.8 86.2 24.1  DO09 M 3 -15 80 0.28 6.17 2.43 1.30 84.83 20.48 0.8  DO09 M 3 -15 80 0.28 6.17 2.43 1.30 84.83 20.48 0.08  DO09 M 3 -15 80 0.28 6.17 2.43 1.30 84.83 20.48 0.08	9A0003	Ŀ	7	<del>, - 4</del>	36	•		•	٠	$^{\circ}$	$\stackrel{\sim}{\sim}$	•
DOUG M 3 -21 80 0.4 6.6 3.5 1.1 61.9 85.50 21.10 0.7  DOUG M 3 -21 52 0.6 6.1 3.5 1.3 75.4 17.0 0.7  DOUG M 3 -21 28 0.1 6.6 6.1 3.5 1.3 75.4 17.0 0.8  DOUG M 3 -21 28 0.1 6.8 3.5 1.5 74.4 21.0 0.8  DOUG M 3 -21 80 0.1 6.1 3.5 1.3 100.8 27.7 0.8  DOUG M 3 -21 80 0.4 6.6 3.5 1.3 100.8 27.7 0.8  DOUG M 3 -21 80 0.4 6.6 3.5 1.1 61.9 21.4 0.7  DOUG M 3 -22 80 0.3 6.8 3.5 1.1 61.9 0.7  DOUG M 3 -21 80 0.4 6.6 3.5 1.1 61.9 0.7  DOUG M 3 -22 80 0.3 6.8 3.5 1.1 61.9 0.8  DOUG M 3 -22 80 0.3 6.8 3.5 1.1 89.4 21.2 0.8  DOUG M 3 -22 80 0.3 6.8 3.5 1.1 89.4 21.2 0.8  DOUG M 3 -20 48 0.3 6.8 3.5 1.1 89.4 21.2 0.8  DOUG M 3 -20 48 0.3 6.8 3.5 1.1 89.4 21.2 0.8  DOUG M 3 -20 48 0.3 6.8 3.5 1.1 89.4 0.8  DOUG M 3 -20 48 0.3 6.8 3.5 1.1 89.4 0.8  DOUG M 3 -20 48 0.3 6.8 3.5 1.1 89.4 0.8  DOUG M 3 -20 48 0.3 6.8 3.5 1.1 89.4 0.8  DOUG M 3 -20 48 0.3 6.8 3.5 1.1 89.4 0.8  DOUG M 3 -20 48 0.3 6.8 3.5 1.1 89.4 0.8  DOUG M 3 -20 48 0.3 6.8 0.3 1.1 89.4 0.8  DOUG M 3 -20 48 0.3 6.8 0.3 1.1 89.4 0.8  DOUG M 3 -20 48 0.3 6.8 0.3 1.1 89.4 0.8  DOUG M 3 -20 48 0.3 6.8 0.3 1.1 89.4 0.8  DOUG M 3 -20 48 0.3 6.8 0.3 1.1 89.4 0.8  DOUG M 3 -20 48 0.3 6.8 0.3 1.1 89.4 0.8  DOUG M 3 -20 40 0.3 6.8 0.3 1.1 89.4 0.8  DOUG M 3 -20 40 0.3 6.8 0.1 89.8 0.0 84.8 0.0 0.8  DOUG M 3 -20 48 0.3 6.9 0.3 1.1 89.4 0.8  DOUG M 3 -20 48 0.3 6.9 0.3 1.1 89.4 0.8  DOUG M 3 -20 48 0.3 6.8 0.1 89.8 0.0 0.8  DOUG M 3 -20 48 0.3 6.8 0.1 89.8 0.0 0.8  DOUG M 3 -20 48 0.3 6.8 0.1 89.8 0.0 0.8  DOUG M 3 -20 48 0.3 6.9 0.1 89.8 0.0 0.8  DOUG M 3 -20 48 0.8 0.1 89.8 0.0 0.8  DOUG M 3 -20 48 0.8 0.1 89.8 0.0 0.8  DOUG M 3 -20 48 0.8 0.1 89.8 0.0 0.8  DOUG M 4 -20 40 6.8 0.1 80 0.1 80 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	9 <b>A</b> 0007	Ĺτί	7	_	82	•	•	•	•	4.	4.	•
Dev Solving M 2 -21 52 0.6 6.1 3.5 1.3 75.4 17.0 0.0 0.0 0.0 0.9 0.52 0.33 0.19 12.93 5.77 0.0 0.0 0.0 0.0	Mean					.2	6.	-:	-:	5.5	1.	7.
0009 M 2 -21 52 0.6 6.1 3.5 1.3 75.4 17.C 0.7 0009 M 2 -22 31 0.4 6.6 3.4 1.1 76.9 12.3 0.8 0047 M 2 -19 31 0.2 6.5 3.4 1.1 105.7 22.3 0.8 0031 F 2 -19 31 0.2 6.5 3.4 1.1 105.7 22.3 0.8 0063 F 2 -12 28 0.3 6.8 3.3 0.9 87.7 22.9 0.8 0066 F 2 -12 28 0.3 6.8 3.3 1.3 1.20 86.82 20.9 0.8 0067 M 3 -21 80 0.4 6.6 3.5 1.1 61.9 21.4 0.7 0075 M 3 -21 80 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0055 M 3 -19 54 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0055 F 3 -15 80 0.2 6.2 1.1 188 86.2 2.1 0.8 0057 M 3 -15 50 0.2 6.2 4.1 1.2 86.5 15.4 0.9 0058 F 3 -12 80 0.2 6.2 4.1 1.2 86.5 15.4 0.9 0059 F 3 -12 80 0.2 6.2 4.1 1.2 86.5 15.4 0.9 0059 F 3 -12 80 0.2 6.2 4.1 1.2 86.5 15.4 0.9 0059 F 3 -12 80 0.2 6.7 3.1 1.2 86.5 15.4 0.9	$\circ$				0	0.	. 5	· 3		2.9	5.7	0.
0009 M 2 -22 31 0.4 6.6 3.4 1.1 76.9 12.3 0.7 0.8 0.8 0.1 1 0.5 7 22.3 0.8 0.8 0.3 1 1.1 105.7 22.3 0.8 0.8 0.3 1 1.1 105.7 22.3 0.8 0.8 0.3 1.2 28 0.1 5.9 3.5 1.5 74.4 21.0 0.8 0.8 0.6 0.8 0.8 0.9 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	9 <b>A</b> 0000		7	-21	52	•		•	•	5.	7.	•
0047 M 2 -19 31 0.2 6.5 3.4 1.1 105.7 22.3 0.8 0.8 0.03 F 2 -14 62 0.1 5.9 3.5 1.5 74.4 21.0 0.8 0.8 0.66 F 2 -12 28 0.3 6.8 3.3 0.9 87.7 20.9 0.8 0.8 0.66 F 2 -13 37 0.1 6.1 3.5 1.3 100.8 27.7 0.8 0.66 F 2 -13 37 0.19 0.35 0.08 0.21 13.69 27.7 0.8 0.05 M 3 -21 80 0.4 6.6 3.5 1.1 89.4 21.2 0.8 0.05 M 3 -20 48 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0.05 M 3 -14 47 0.2 6.2 4.0 1.8 86.2 24.1 0.0 0.8 0.2 6.2 4.0 1.8 86.5 15.4 0.9 0.8 0.3 6.8 3.5 1.1 86.5 0.08 0.0 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.	9A0000		2	-22	31	•	•	•	•	Ġ.	2.	•
0031         F         2         -14         62         0.1         5.9         3.5         1.5         74.4         21.0         0.8           0063         F         2         -12         28         0.3         6.8         3.3         0.9         87.7         20.9         0.8           0066         F         2         -12         28         0.1         6.8         3.5         1.3         100.8         27.7         0.8           Dev         40.2         0.28         6.33         3.43         1.20         86.82         20.20         0.7           0002         M         3         -21         80         0.4         6.6         3.5         1.1         61.9         21.2         0.0           0045         M         3         -20         48         0.3         6.8         3.5         1.1         61.9         21.4         0.7           005         M         3         -20         48         0.3         6.4         3.2         1.1         89.4         21.2         0.8           0025         F         3         -14         47         0.2         6.2         4.0         1.8         86.5 <td>9A0004</td> <td></td> <td>2</td> <td>-19</td> <td>31</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>05.</td> <td>2.</td> <td></td>	9A0004		2	-19	31	•	•	•	•	05.	2.	
0063 F     2     -12     28     0.3     6.8     3.3     0.9     87.7     20.9     0.8       0066 F     2     -13     37     0.1     6.1     3.5     1.3     100.8     27.7     0.8       0066 F     2     -13     37     0.19     0.35     0.08     0.21     13.68     20.20     0.7       0002 M     3     -21     80     0.4     6.6     3.5     1.1     61.9     21.4     0.0       0045 M     3     -20     48     0.3     6.8     3.5     1.1     89.4     21.2     0.8       0052 M     3     -20     48     0.3     6.4     3.2     1.0     108.0     20.4     0.8       0052 M     3     -15     50     0.2     6.2     4.0     1.8     86.2     24.1     0.8       003 E     5     7     3.1     1.2     86.5     15.4     0.9       0064 F     3     -12     80     0.28     6.17     2.43     1.30     84.83     20.48     0.0       0ev     15.8     0.57     0.32     0.32     0.32     15.13     2.84     0.0	9A0003		7	-14	62	•	٠	•	•	4.	:	٠
0066     F     2     -13     37     0.1     6.1     3.5     1.3     100.8     27.7     0.8       Dev     40.2     0.28     6.33     3.43     1.20     86.82     20.20     0.7       0002     M     3     -21     80     0.19     0.35     0.08     0.21     13.69     5.19     0.0       0045     M     3     -21     80     0.4     6.6     3.5     1.1     61.9     21.4     0.0       0052     M     3     -20     48     0.3     6.4     3.2     1.0     108.0     20.4     0.8       0052     M     3     -14     47     0.2     6.2     4.0     1.8     86.2     24.1     0.8       0033     F     3     -15     80     0.2     5.7     3.1     1.2     86.5     15.4     0.9       0044     F     3     -12     80     0.28     6.17     2.43     1.30     84.83     20.48     0.0       0ev     15.8     0.57     0.32     0.32     15.13     2.84     0.0	9 <b>A</b> 0006		7	-12	28	•	•	•	٠	7.	0	•
Dev 13.7 0.28 6.33 3.43 1.20 86.82 20.20 0.70 13.7 0.19 0.35 0.08 0.21 13.69 5.19 0.00 0.00 0.21 13.69 5.19 0.00 0.00 0.25 M 3 -21 80 0.4 6.6 3.5 1.1 61.9 21.4 0.7 0.052 M 3 -20 48 0.3 6.4 3.2 1.0 108.0 20.4 0.8 0.00 0.2 6.2 4.0 1.8 86.2 24.1 0.8 0.00 0.2 6.2 4.0 1.8 86.5 15.4 0.9 0.00 0.3 5.7 3.1 1.2 86.5 15.4 0.9 0.9 0.00 0.3 5.3 3.1 1.6 77.3 20.4 0.8 0.8 0.8 0.28 6.17 2.43 1.30 84.83 20.48 0.00 0.00 0.57 0.32 15.13 2.84 0.0 0.0	9 <b>4</b> 0006		2	-13	37	•		•	•	0	7.	•
Dev     13.7     0.19     0.35     0.08     0.21     13.68     5.19     0.0       0002     M     3     -21     80     0.4     6.6     3.5     1.1     61.9     21.4     0.7       0045     M     3     -19     54     0.3     6.8     3.5     1.1     89.4     21.2     0.8       0052     M     3     -20     48     0.3     6.4     3.2     1.0     108.0     20.4     0.8       0025     F     3     -14     47     0.2     6.2     4.0     1.8     86.2     24.1     0.9       0033     F     3     -15     80     0.2     5.7     3.1     1.2     86.5     15.4     0.9       0064     F     3     -12     80     0.28     6.17     2.43     1.30     84.83     20.48     0.0       Dev	Mean				1 .	.2	\mathcal{m}{\pi}	4	.2	6.8	0.2	1.
0002     M     3     -21     80     0.4     6.6     3.5     1.1     61.9     21.4     0.7       0045     M     3     -19     54     0.3     6.8     3.5     1.1     89.4     21.2     0.8       0052     M     3     -20     48     0.3     6.4     3.2     1.0     108.0     20.4     0.8       0025     F     3     -14     47     0.2     6.2     4.0     1.8     86.2     24.1     0.9       0033     F     3     -15     80     0.2     5.7     3.1     1.2     86.5     15.4     0.9       0064     F     3     -12     80     0.28     6.17     2.43     1.30     84.83     20.48     0.8       Dev     15.8     0.08     0.57     0.32     0.32     15.13     2.84     0.0	De				•	۲.	٣.	0.	. 2	3.6	5.1	0.
0045 M 3 -19 54 0.3 6.8 3.5 1.1 89.4 21.2 0.8 0052 M 3 -20 48 0.3 6.4 3.2 1.0 108.0 20.4 0.8 0055 M 3 -20 48 0.3 6.4 3.2 1.0 108.0 20.4 0.8 0025 F 3 -14 47 0.2 6.2 4.0 1.8 86.2 24.1 0.8 0033 F 3 -15 50 0.2 5.7 3.1 1.2 86.5 15.4 0.9 0.0 0064 F 3 -12 80 0.28 6.17 2.43 1.30 84.83 20.48 0.8 0.8 0.8 0.8 0.57 0.32 15.13 2.84 0.0	9 <b>A</b> 0000	Σ	m	-21	80		•		•	۲.	Ξ.	
0055 M 3 -20 48 0.3 6.4 3.2 1.0 108.0 20.4 0.8 0025 F 3 -14 47 0.2 6.2 4.0 1.8 86.2 24.1 0.8 0033 F 3 -15 50 0.2 5.7 3.1 1.2 86.5 15.4 0.9 0064 F 3 -12 80 0.28 6.17 2.43 1.30 84.83 20.48 0.8 0.8 0.8 0.57 0.32 0.32 15.13 2.84 0.0	9A0004	Σ	٣	-19	54	•		•	٠	9.		
0025     F     3     -14     47     0.2     6.2     4.0     1.8     86.2     24.:     0.8       0033     F     3     -15     50     0.2     5.7     3.1     1.2     86.5     15.4     0.9       0064     F     3     -12     80     0.3     5.3     3.3     1.6     77.3     20.4     0.8       59.8     0.28     6.17     2.43     1.30     84.83     20.48     0.8       Dev     15.8     J.08     0.57     0.32     0.32     15.13     2.84     0.0	9A0005	Σ	m	-20	48	•	•	•	•	ω	0	•
0033 F 3 -15 50 0.2 5.7 3.1 1.2 86.5 15.4 0.9 0064 F 3 -12 80 0.3 5.3 3.3 1.6 77.3 20.4 0.8   59.8 0.28 6.17 2.43 1.30 84.83 20.48 0.8   Dev 15.8 J.08 0.57 0.32 15.13 2.84 0.0	9 <b>A</b> 0002	ĹĿij	ന	-14	47	•	•	•	•	9	4.	•
0064 F     3     -12     80     0.3     5.3     3.3     1.6     77.3     20.4     0.8       59.8     0.28     6.17     2.43     1.30     84.83     20.48     0.8       Dev     15.8     J.08     0.57     0.32     15.13     2.84     0.0	9 <b>A</b> 0003	Ŀı	ĸ	-15	50	•	•	•	٠	9	5.	•
59.8 0.28 6.17 2.43 1.30 84.83 20.48 0.8 Dev	9 <b>A</b> 0006	Г	m	-12	80	•	•	•	•	7.	0	•
Dev 15.8 J.08 0.57 6.32 0.32 15.13 2.84 0.0	Mean				9.	2:	=	4.	.3	4.8	0.4	∞.
					5.	0.	. 5	٣.	٠.	5.1	∞.	0.

Animal Sex Group Day TRIG  89A00018 M 4 -22 57 89A00020 F 4 -19 57 89A00020 F 4 -14 60 89A00020 F 4 -15 87 89A00021 F 4 -13 44  Mean  89A0004 M 5 -22 73 89A0004 M 5 -22 73 89A00065 F 5 -19 38 89A00065 F 5 -12 36 89A00067 F 5 -12 36 89A00067 F 5 -12 36 89A00067 F 5 -12 36 89A00050 M 6 -21 28 89A00051 M 6 -21 28 89A00051 F 5 -13 60 89A00051 F 5 -13 60 89A00051 F 6 -19 38							
00048 M 4 -22 57 0056 N 4 -19 57 0056 N 4 -20 46 00039 F 4 -14 60 00039 F 4 -15 87 0004 M 5 -22 73 0065 F 5 -19 77 0065 F 5 -19 77 0065 F 5 -19 77 0067 M 6 -21 28 0050 M 6 -21 28 0051 M 6 -20 36 0051 F 6 -19 38 0051 F 5 -13 60 0051 F 5 -13 60 0051 F 5 -13 60 0051 F 5 -13 60 0051 F 6 -19 38	RIG URI	C TP	ALB	A-G	GLU	BUN	CR
00048 M 4 -19 57 0056 N 4 -20 46 0039 F 4 -14 60 0001 F 4 -15 87 0004 M 5 -21 58 0005 F 5 -19 77 0005 F 5 -19 77 0007 M 6 -21 28 0050 M 6 -20 36 0051 M 6 -20 36 0051 M 6 -20 36 0051 M 6 -19 38 0051 M 6 -19 38 0051 M 6 -19 56 0051 M 6 -19 56 0051 M 6 -19 56 0051 F 6 -19 56	7	9	3.6	•	7.	4.	
0056 N 4 -20 46 0020 F 4 -14 60 0039 F 4 -15 87 0071 F 4 -15 87 0004 M 5 -21 56 00027 F 5 -19 77 0065 F 5 -19 77 0069 F 5 -19 38 0050 M 6 -21 28 0050 M 6 -20 36 0051 M 6 -19 38 0051 M 6 -19 38 0051 F 6 -19 56	7	9		•	2		
DO02 F 4 -14 60 D039 F 4 -15 87 D001 F 4 -13 44 D0004 M 5 -21 56 D004 M 5 -22 73 D0065 F 5 -19 77 D007 F 5 -19 38 D0050 M 6 -21 28 D0050 M 6 -20 36 D0051 F 6 -14 56 D0041 F 6 -15 87 D0041 F 6 -15 57	.0	4 6.7	2.9	8.0	92.1	32.7	0.8
D039 F 4 -15 87  D001 F 4 -15 87  D0004 M 5 -21 56  D011 M 5 -22 73  0027 F 5 -19 77  0065 F 5 -12 36  Dev  0060 M 6 -21 28  0050 M 6 -21 28  0050 M 6 -19 38  0051 F 6 -14 56  0051 F 6 -15 87	0.	6.	•	•	4.	$_{\infty}^{\cdot}$	•
Dev Dev Dought M 5 -21 58. 0004 M 5 -22 73 0046 M 5 -19 77 0065 F 5 -19 77 0069 F 5 -12 36 0069 F 6 -12 36 0050 M 6 -21 28 0050 M 6 -20 36 0051 M 6 -20 36 0051 F 6 -19 38	7 0.	5.		•	2.	2	•
Dev 0004 M 5 -21 56 0011 M 5 -22 73 0046 M 5 -19 77 0065 F 5 -14 38 0069 F 5 -12 36 0069 F 5 -13 60 0050 M 6 -21 28 0050 M 6 -21 28 0051 M 6 -20 36 0059 F 6 -19 38 0051 F 6 -19 55	4 0.	5.	•	•	ж.	4.	•
Dev 0004 M 5 -21 56 0011 M 5 -22 73 0046 M 5 -19 77 0057 F 5 -19 77 0065 F 5 -12 36 0069 F 5 -13 60 0050 M 6 -21 28 0050 M 6 -20 36 0051 M 6 -20 36 0051 F 6 -19 38 0051 F 6 -19 56	8.5 0.	5 6.0	1.7	12.	5.4	4.	0.73
0004 M 5 -21 5 00046 M 5 -22 7 00046 M 5 -19 7 00057 F 5 -14 3 00069 F 5 -12 3 00050 M 6 -21 2 00051 M 6 -20 3 00051 F 6 -19 3 00041 F 6 -12 5	5.4 0.	20 0.54	0.33	0.27	10.21	6.12	0.08
0046 M 5 -22 7 0046 M 5 -19 7 0065 F 5 -14 3 0069 F 5 -12 3 00607 M 6 -21 2 0050 M 6 -20 3 0051 M 6 -19 3 0051 F 6 -14 5	0,	9		•	5.	9	
0046 M 5 -19 7 0065 F 5 -12 3 0069 F 5 -12 3 0060 M 6 -21 2 0050 M 6 -21 2 0051 M 6 -19 3 0059 F 6 -14 5 0041 F 6 -12 5	3	9		•	9.	7.	0.8
0027 F 5 -14 3 0065 F 5 -12 3 0069 F 5 -12 6 0007 M 6 -21 2 0050 M 6 -19 3 0051 M 6 -19 3 0051 F 6 -14 5 0041 F 6 -12 5	7 0.	6.	•	•	4.	4	•
0065 F 5 -12 3 0069 F 5 -12 3 0007 M 6 -21 2 0050 M 6 -19 3 0051 M 6 -20 3 0029 F 6 -14 5 0041 F 6 -12 5	8	2 6.6	4.0	1.6	0.68	18.9	0.7
Dev 0009 F 5 -13 6 0007 M 6 -21 2 0050 M 6 -19 3 0051 M 6 -19 3 0029 F 6 -14 5 0041 F 6 -15 8	6 0.	5.	•	•	2.	<u>~</u> :	6.0
Dev 0007 M 6 -21 2 0050 M 6 -19 3 0051 M 6 -20 3 0029 F 6 -14 5 0041 F 6 -12 5	0 0.	5.	•	•	0	· •	
Dev 10007 M 6 -21 2 30050 M 6 -19 3 0051 M 6 -20 3 0029 F 6 -14 5 0041 F 6 -12 5	6.7 0.	2 6.0	E.	2.	71.68	25.13	08.0
9A00007 M 6 -21 2 9A00050 M 6 -19 3 9A00051 M 6 -20 3 9A00029 F 6 -14 5 9A00041 F 6 -15 8	7.1 0.	12 0.44	0.39	0.22	5	9.8	•
9A00050 M 6 -19 3 9A00051 M 6 -20 3 9A00029 F 6 -14 5 9A00041 F 6 -15 8	0	5.	•		0.	2	
9A00051 M 6 -20 3 9A00029 F 6 -14 5 9A00041 F 6 -15 8 9A00061 F 6 -12 5	38 0.	1 5.5	3.3	1.5	105.8	22.1	0.8
9A00029 F 6 -14 5 9A00041 F 6 -15 8 9A00061 F 6 -12 5	0 9	9	•	•	2	9	•
9A00041 F 6 -15 8 9A00061 F 6 -12 5	0 9	.9	•	٠	æ	<u>ب</u>	٠
9A00061 F 6 -12 5	7 0	5.	•	•	9.	б	•
	2 0	5.	•	•	0		•
6	0.5	3 5.8	4.	4.	7.8		
Dev 21.	· —	10 0.45	0.10	0.21	15.14	6.14	0.09
- 1							

				Appendix	<pre>G (cont.)</pre>	ıt.):	SERUM C	CHEMISTRY			
Animal	Sex	Group	Day	TRIG	JRIC	TP	ALB	A-G	СГО	BUN	CR
									(		
9A0001	Σ	7	-22	43	•		٠	•			٠
9A0004	Σ	7	-19	30	•		•	•	4	ဆ	
9A0005	Σ	7	-20	28			•	•	2	7.	•
9A0003	[L	7	-14	43	•			•	•	0	•
9A0003	ı (e.	7	-15	54	0.2	5.2	3.2	1.7	78.5	21.3	1.0
89A00070	i iu	7	-13	37	0.4			٠	٠	<i>2.</i>	•
W G W					\ ~	2	.	$ \sim$	0.6	-	∞
Std Dev				9.6	0.21	0.61	0.30	0.33	11.29	$\sim$	0.13
	2	O	,	o c					$\propto$	6	
8 9 A U U U U I	Ξ	0 0	17	0 0	•		•	•			
89 <b>A</b> 00013	Σ	∞	-22	40			•	•	T (	, ,	
89A00053	Σ	œ	-20	35	٠		٠	•	7	o	
89A00040	ш	∞	-15	55	•	٠	٠	٠		N	
89A00062	ī	œ	-12	6.1	0.4	5.4	3.1	1.3	81.5	32.1	1.0
89A00068	ഥ	8	-13	78	•		•	•	0	4.	•
N N				١.	<u>س</u>	1.	٣.	4.	2		0.88
St Dev				16.7	80.0	0.63	0.35	0.29	6.79	6.0	0.
0000000	2	σ	-21	50				1.1	7 .	0	•
	Ξ >	n 0	1 1 1	មាន					,	\ \	
89400043	ΞΣ	n o	-20	52	0.2	6.1	3.6	1.5	89.5	22.4	9.0
940000	<u>.</u>	5	-14	33	•	٠	•	1.7	2.		•
9A0003	, [I	5	-15	44	•	•	•	1.4	÷	9.	•
89A00060	Ĺij.	6	-12	43	1	•	•	1.5	7 .	0	•
ean				44.3	0.25	5.85	3.42	1.43	88.75	19.87	0.80
Std Dev				•	⁻.	٠,	7	7.	٥.٥	7.	?

				Appendix	ტ	ppondix G (cont.):	SERUM	CHEMISTRY	;	
Animal Sex Group Day	Sex	Group	Day	CAL	PHOS	NA	CI,	×	IRON	MAG
89800006	Σ	10	-2.	10.8	5.3	154.4	113	4.5	134.9	1.81
89A00044	Σ	10	-19	10.5	6.7	156.5	115	4.7	115.4	1.61
89A00057	Σ	10	-20	9.7	7.0	156.7	117	4.5	223.7	1.98
89A00034	[E	10	-15	11.7	4.2	157.8	123	٦. ٦	126.1	1.62
89A00059	لع.	10	-12	10.2	0.9	157.4	119	5.5	214.1	1.57
89A00067	بتا	10	-13	10.2	6.3	157.3	118	5.2	216.5	1.96
<u> </u>				10.52	5.92	156.68	117.5	4.88	171.62	1.758
Std Dev				69.0	1.03		3.4	0.40	51.35	0.184

		:								
Animal Number		Grou	Day	CAL	PHOS	NA	CT	<b>x</b> :	IRON	MAG
9 <b>A</b> 0001	Σ	-	$\sim$	11.6		50.			36.	ί.
89A00042	Σ					56.		•	19.	9
9A0005	Σ	_	$\sim$	8.5	5.9	156.0	115	5.0	160.6	1.64
9A0002	Ĺ	_	,			49.		٠	69.	9.
9 <b>A</b> 0003	ĹŦ.	~-4	_			5 3.	_		26.	9.
39A00072	ш	-	-13			5β.		•	22.	$\infty$
O E e A					1	-		∞.		
Std Dev				Ω.	1.09		1.5	0.44	71.9	
39A00003		2	-21	11.4		59.			29.	$\infty$
89A00009		7	-22			.09	$\sim$	•	07.	$\infty$
39A00047		2	-19		٠	56.	$\overline{}$	•	30.	9.
39A00031		7	-14		5.6	157.5	118	5.6	146.9	1.88
89A00063		2	-12	-	•	60.	$\sim$	•	65.	٠٠.
89A00066	ĹĿ	7	-13		•	56.	<del></del>	•	51.	۲.
26.07				8	4.	8.5		9.		
Std Dev				0.68	0.70	2.11		0.36	20.4	
9 <b>A</b> 0000		~				59.	~	•	9	0.
9A0004		m			•	59.	$\leftarrow$	•	43.	0.
89A00052	Σ	m	-20	9.9	6.0	157.2	112	4.8	183.4	1.80
9A0002		m		•	٠	60.	$\sim$	•	67.	9.
9 <b>A</b> 0003		m		٠	•	52.	$\overline{}$	•	32.	٠.
89A00064		3		•	•	54.	1	•	34.	$\infty$ .
Mean				10.63	5.82	157.43	116.2	4.88	172.88	1.845
Std Dev				σ	,	3.	٠	ن.	63.2	. 19

Appendix G (cont.):

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	<b>र</b> ं	IRON	MAG
9 <b>A</b> 0001	Σ	4	$\sim$			57.	11.7		9	•
9A0004	Σ	4	. →	-	•	59.	$\neg$		90.	•
89A00056	Σ	4	-20	9.5	5.7	158.7	116	5.1	182.5	1.90
940002	Ŀ	4	~	•	•	53.	$\overline{}$	•	46.	
9.A0003	تبا	4	$\dashv$	;		52.		•	5.	•
9 <b>A</b> 0007	ĩ.	4	-13	•	•	57.	2	•	$\frac{\infty}{2}$	•
<b>fean</b>					4	6.5	-	ω.	7.6	17.
Std Dev				0.71	0.87	2.63		0.24	83.74	0.071
9 <b>A</b> 0000	Σ	5	7	•	•	56.	_	•	55.	7.
9A0001	Σ	2	N	•	•	55.	_	•	31.	0.
9A0004	Σ	2		9.6	5.9	155.1	111	5.2	235.1	1.72
9 <b>A</b> 0002	Ŀ	5	$\vdash$			60.	$\sim$	٠	07.	9.
9 <b>A</b> 0306	Ŀ	S	٦	•	•	58.		٠	12.	9.
89A00069	[14	5	-13	•	•	57.	~	•	80.	∞.
1ean				11.00	3	7.1	15.	0.	3.7	7.5
Std Dev				0.	1.09	2.10	3.7	0.15	48	0.149
980000	Σ	9	~			56.	-		.99	. 7
9A0005	Σ	9	~			53.	_	•	15.	9.
39A00051	Σ	9	-20	10.2	6.5	156.9	116	5.2	149.3	1.83
9 <b>A</b> 0002	Ŀı	9	$\vdash$			54.	٢	•	51.	$\infty$
9A0004	Ĺų	9	$\leftarrow$		•	55.	~		$\circ$	6.
89A00061	Ĺ	9			•	59.	$\neg$		70.	
Mean				10.95	5.28	155.93	116.2	4.85	163.97	1.822
NAC DAY				6		3	_	4	9.0	01.

				Appendix	oo) 9	(cont.):	SERUM	CHEMISTRY		
Arimal	Sex	Group	Day	CAL	РНОЅ	e Z	CL	ズ	IRON	MAG
						(			(	
9 <b>A</b> 00001	Σ	7	2		٠	52.	_	•	03.	Σ.
9A00 14	Σ	7	$\vdash$		•	58.	,—	•	08.	9
9A0005	Σ	7	2	0	•	55.	$\leftarrow$	٠	10.	<b>∵</b>
9A0003	Ŀ	7	-14	11.5	4.5	158.9	124	4.8	153.0	1.75
980003	بتا	7	~	<u>.</u>	•	53.	7	•	69.	$\infty$
89A00070	Ĺ	7	-13	9.6		55.	-	•	16.	$\infty$ .
0 2				4		19	8	4.73	6.5	.72
Std Dev				0.93	0.65	2	3.4	)	27.25	0.106
,		,	(	•		(	(		20	C
89A00001		œ	7	12.4		. 79	7,		n c	
89A00013		80	$\sim$	11.4	٠	56.	~	٠	ف	•
89A00053		∞	2	9.5	•	55.	<b>~</b>	•	43.	9
89A00040	Ŀı	ω	-15	11.7	5.0	156.6	119	 G	86	1.59
89A00062		œ	$\leftarrow$	10.2	٠	54.	$\vdash$	•	;	٠ ٦
89A00068		ω	-13	9.9	•	55.	_	•	78.	C.
M O					4	10	ω,	9	2.4	7.
Std Dev				1.22	0.56		2.2	0.25	32.57	0.162
0	:	C		0		7 4	_		42	α
9 <b>A</b> 0000	Σ	<b>5</b> C	V -	•	•	ວ ໝ ດ ທ	٦ (		. 7 d	) œ
9A0004	ΣΣ	no	40	n v	•	٠ د د د	- ١		28.	20
000000	<u>.</u> (1	n o	-14		4.	153.9	116	4.7	128.7	1.83
500046	, [2	σ		11.4		54.		•	51.	٦.
89A00060	ı Eu	0	1	7.6	•	56.	7	•	79.	œ.
M M				LC	3.	1	١.	8.	9	۲.
Std Dev				95.0	0.87			0 14	75.13	0.150

				Appendix G (cont.):	9	ont.):	SERUM	CHEMISTRY			
Animal Sex Group Day Number	Sex	Group	Day	ALT	AST	ALK	НОП	199	CK	BILI	СНОГ
89A00006	Σ	10	1-	.1	21.8	40.7	62.2	4.4	117.60	0.00	194.0
89A00044	Σ	10	1	32.2	15.4	107.4	222.9	1.4	228.24	00.0	197.4
89A00057	Σ	10	٢-	45.3	20.4	60.4	94.5	•	125.34	00.0	146.7
89A00034	Ŀı	10	1	. 1	19.2	41.2	33.9	18.2	60.50	0.00	156.0
89A00059	Ŀ	10	1	25.7 2	24.0	70.7	89.9	3.6	120.91	00.00	124.9
89A00067	гı	10	1-	8.	46.0	54.1	369.5	4.7	1123.59	00.0	231.1
Mean					27.80	62.42	145.48	5.63	296.03	0.000	175.02
Std Dev				8.96	10.66	24.85	127.48		409.04	0.000	39.20

				Appendix	<b>ა</b>	(cont.):	SERUM CH	CHEMISTRY			
Animal Number	Sex	Group	рау	ALT	AST	ALK	грн	GGT	CK	BILI	ТОНО
1000	2	ŗ	۲	,-	,	_	d		0		99
34000	Ξ	7 .	<b>-</b> 1	⊣ (	•	- (		•	70.7	•	00
9 <b>A</b> 0004	Σ		/_	`	S	· >		•	81.6	•	83.
9A0005	Σ	<b>-</b> -+	-7	2	4.	0	60.	•	39.6	٠	33.
89A00022	ſτι	-	۲-	19.7	25.9	55.0	71.0	5.0	124.49	00.0	163.4
9A0003	Ĺ	,-	7-	ب	4.	2.	53.	•	77.2	•	36.
9 <b>A</b> 0007	ĹΉ	<b>,</b>	-7	æ	4.	5.	4		62.5	•	55.
M				-	\ m	5.8	22.3	∞	96.0	0	89.8
Std Dev				8.24	4.88	6.27	38.63	4.52	81.37	0.000	36.11
000040	2	c	7-	α	~		\(C		٠		7.0
	Ξ Σ	, c	٠ ر	> <			0 0	•	, r		ο σ
	ΞΣ	<b>4</b> C	۱ ر	> <	, , c	·	د		r. 0		) (
#000#0	<b>E</b> L	<b>4</b> C	٠ ر	. o	> ~	- a		•	70.7		
2000 <b>4</b> 6	4 [	<b>7</b> C	, , ,	ο α	7 G	o c		•	7.2.7 95.4	. $\subset$	· σ
89A00066	י נדי	7 5	, - 	25.3	47.6	42.7	481.0	2.4	630.51	00.0	169.3
Mean				25.90	28.73	48.77	159.32	3.62	223.84	000.0	173.68
Std Dev				0.	0.3	8.6	58.4	9.	02.5	0.	6.4
980000	Σ	m	1-	9	9	4.	9.		24.5	0.	70.
9A0004	Σ	m	۲-	4.	2.	7.	9.	•	87.8	0	77.
89A00052	Σ	m	-7	28.1	30.5	52.6	91.7	5.0	161.48	0.00	184.7
9A0002	Ŀ	m	۲-	5.	5.	9	7.	•	32.4	0.	95.
9 <b>A</b> 0003	Гч	m	۲-	$\vec{\ }$	5.	ж	Э.	•	31.6	0.	59.
9 <b>A</b> 0006	ĹĿij	Э	-7	۲.	0	1.	5.	•	34.6	0.	67.
Mean				7	-:	9.	6.3	8.	5.4	00.	
Std Dev				3.29	$\mathcal{C}$	7.33	22.04	4.58	78.24	0.000	12.9

SERUM

(cont.):

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48.43 18.16 185.20 33.68 174.53 161.88 230.1 216.1 109.0 166.3 196.6 186.1 157.2 149.8 175.7 135.8 209.9 229.1 131.3 171.4 189.1 180.4 CHOL 0.000 0.000 0.000 BILI 0.00 0.00 172.73 281.20 83.11 130.75 152.89 304.09 187.46 87.07 196.93 440.23 186.85 269.63 195.27 144.21 238.85 106.60 220.36 521.60 140.20 388.22 142.13 257.50 161.81 CK 5.18  $3.68 \\ 1.15$ 5.00 4.0 3.6 0.7 4.5 4.5 5.0 1.5 4.3 4.3 3.5 4.7 3.5 3.4 5.6 0.2 4.5 2.8 GGT 136.92 77.50 180.13 112.47 136.38 155.1 285.6 103.5 102.2 101.7 109.3 122.8 218.0 160.0 123.9 84.3 176.8 315.6 131.6 315.5 60.0 LDH 51.23 6.43 70.33 65.73 13.43 73.3 61.8 46.8 58.4 86.0 80.7 92.0 53.7 41.3 82.1 54.1 61.0 47.7 42.6 53.8 ALK 29.58 4.82 30.17 30.72 31.8 37.6 24.2 45.1 25.5 28.4 39.1 26.2 26.8 27.3 29.7 27.9 34.2 28.9 30.8 35.5 23.7 AST 27.32 6.96 24.22 5.88 28.32 21.2 29.3 32.5 24.7 21.1 23.5 41.9 31.2 23.8 29.5 20.0 19.2 33.1 34.1 22.1 33.6 21.8 ALT Day r-r-r-L $\Gamma$ Group 99999 22222 **44444** Sex ΣΣΣμμμ ΣΣΣμμμ ΣΣΣωωω 89A00050 89A00051 89A00029 89A00056 89A00020 89A00018 89A00048 89A00039 89A00046 89A00065 89A00069 89A00071 89A00004 89A00011 89A00027 89A00007 89A00041 89A00061 Animal Number Std Dev Std Dev Std Dev Mean

			!	Appendix	ပ	(cont.):	SERUM CE	CHEMISTRY			
Animal Number	Sex	Group	Бау	ALT	AST	ALK	Грн	CGT	CK	BILI	СНОГ
980001	Σ	7	-7	5	4.	ω	48.		43.6	0.	64.
9A0004	Σ	7	1-	4	Ĺ.	8	ဆ		44.2	•	14.
9A0005	Σ	7	-7	0	ω.	7.	86.		12.6	•	92.
89A00030	נבו	7	1-	23.8	24.8	41.8	67.3	4.9	109.58	00.00	219.6
9A0003	ſ±ι	7	1-	2	9.	7 .	7.		30.1	•	81.
9 <b>A</b> 0007	ſъι	7	1-7	0	8	7.	س	•	66.4	•	30.
Mean				2.9	6.3	8.5	1.8	4.	01.1	1 .	67.3
Std Dev				25.61	4.37	15.91	58.69	3.93	98.36	0.000	39.19
9 <b>A</b> 0000	Σ	æ	۲-		4.	ω.	4.		79.5	•	93.
9 <b>A</b> 0001	Σ	80	7-	9	7.	8.	58.	•	16.5	•	75.
89A00053	Σ	œ	1-	22.7	34.7	51.4	211.2	4.1	235.19	00.00	190.9
9A0004	Ŀı	8	۲-	-	2	2.	35.	•	89.8	•	43.
9A0006	Ŀı	æ	-7	4.	0.	7 .	<u>,                                    </u>	•	0.3	٠	73.
9 <b>A</b> 0006	(Fri	æ	1-	7	9.	4.	0	•	81.1	•	41.
Mean				6.	4.	1.9	36.8	6.	87.1	00.	9.8
Std Dev				9.22	9.73	10.12	117.32	4.51	344.03	0.000	22.54
9 <b>A</b> 0000	Σ	თ	7-	8	1.		03.	•	05.3	ς.	59.
89A00049	Σ	6	_7		31.3	52.9	314.4	2.4	278.65	00.0	128.3
9A0005	Σ	6	L-	7.	7 .	9.	60.	•	34.4	С.	39.
9 <b>A</b> 0002	Ē	თ	-7	9.	ω	7	0	•	03.3	ο.	00.
9A0003	Ŀı	Ø	-7	9	7.	6	5.	•	2.5	0.	60.
9 <b>A</b> 0006	ĹŁ,	თ	-7	2.	9.	7.	9.	•	2.8	0.	87.
Mean					1 .		25.6		131.18	0.000	10
Std Dev				4	5.6	3.2	2.	9.	75.7		27.4

				Appendix	<b>U</b>	(cont.):	SERUM	CHEMISTRY			
Animal Sex Group Day Number	Sex	Group	Бау	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89A00006	Σ	10	1-		1.6	6.2	3.6	1.4	90.5	13.0	0.8
89A00044	Σ	10	-7		0.1	6.3	3.0	6.0	78.2	22.8	0.8
89A00057	Σ	10	-7	39	0.2	5.8		1.6	0.06	17.4	9.0
89A00034		10	7-		0.0	6.0	3.4	1.3	107.6	15.8	0.8
89A00059	F	10	۲-	26	0.1	5.7	2.9	1.0	100.0	16.6	0.7
89A00067		10	7-		0.1	5.3	3.0	1.3	91.9	16.2	0.7
Mean				46.0	0.35		3.25	1.26	93.03	16.97	0.73
Std Dev				19.4	0.62	0.37	0.32		9.98	3.23	0.08

0.73 0.73 0.70 0.8 0.7 0.6 0.7 0.8 0.7 0.9 0.8 0.6 0.7 0.6 0.8 0.6 0.8 CR 17.78 4.58 17.00 5.41 15.83 16.6 16.5 19.6 15.1 12.9 26.0 12.6 16.4 15.3 12.5 18.1 27.1 10.1 14.7 15.7 22.1 22.1 19.3 BUN 90.40 12.80 93.52 6.46 87.27 6.81 100.0 75.0 101.9 74.9 101.2 89.4 96.0 92.2 82.8 77.9 90.8 83.9 87.8 89.1 100.7 89.1 91.8 GLU 1.30 1.45  $1.21 \\ 0.17$ 2.0 1.5 1.4 1.1 A-G 1.5 1.1 1.1 1.1 1.3 1.1 1.2 1.5 1.0 3.43 3.20  $3.27 \\ 0.21$ 3.30 3.0 3.0 3.0 3.0 3.1 ALB 5.83 86 60 87 54 5.7 6.1 5.8 6.4 5.3 5.6 6.2 6.2 6.2 5.7 5.9 6.6 6.4 5.7 5.7 . . 50. 0.07 .35 .37 URIC 1.6 0.3 0.0 0.0 0.00 1.6 0.2 0.1 0.0 0.1 00 00 Appendix 46.3 46.3 51.3 TRIG 60 52 49 52 38 43 43 28 37 53 62 55 48 43 32 46 74 Day C $\Gamma$ CGroup ----777777 m m m m mSex ΣΣΣωωω ΣΣΣωωω  $\Sigma \Sigma \Sigma \Box \Box \Box$ 89**A**00058 89**A**00022 89A00009 89A00045 89A00012 89A00042 89A00038 89A00003 89A00047 89A00063 89A00066 89A00002 89A00052 89A00025 89A00033 89A00072 89A00031 89A00064 Mean Std Dev Animal Mean Std Dev Number Std Dev Mean

SERUM

(cont.):

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Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	ŢP	ALB	A-G	ЭГО	BUN	CR
9 <b>A</b> 0001 9 <b>A</b> 0004 9 <b>A</b> 0005	ΣΣΣ	ক ক ক	r- r-	5 4 4 0 0 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5					80.	4.	_• •
89A00020 89A00039 89A00039	म्यम्य	ਾ ਧਾ ਧਾ ਧਾ	r- r-	52 103 47	0.0		3.0 3.0 3.0	1.6	80.4 89.9 123.9	16.6 33.5	0000
Mean Std Dev				57.7	0.15	5.76	3.43	1.48	92.58	16.23	0.70
89A00004 89A00011 89A00027 89A00065 89A00065	ΣΣΣμμμ	ດດວດວດ		36 36 71 13	1.6 0.1 0.0 0.2	5.00 6.00 6.11 7.44 7.41	8 9 3 3 3 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9	1.8 1.0 1.0 1.3	80.4 98.0 86.7 84.1 103.5 98.4	12.5 10.8 15.6 18.9 22.0	888968
Mean Std Dev				38.8	0.37	5.85	3.38	1.43	91.85	18.15	0.78
89A00007 89A00050 89A00051 89A00029 89A00041	ΣΣΣμμμ	<b>ى ى ى ى ى ى ي</b>		35 63 34 57 82	1.6 0.1 0.0 0.0	6.0 6.0 7.3 7.4 8.0	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1.3 1.6 1.2 1.7 1.5	89.1 89.7 92.3 86.4 96.4	16.8 22.8 20.2 12.5 19.7	0.8 0.7 0.6 0.8
Mean Std Dev				52.7 18.5	0.32	5.68	3.37	1.49	93.08	19.98	0.73

				Appendix	ტ	(cont.):	SERUM	CHEMISTRY			
Animal Number	Sex	Group	Бау	TRIG	URIC	TP	ALB	A-G	61.0	BUN	CR
980001	Σ	7	7-	ω συ					α	4	
9A0004	Σ		-7	45	•	•	•		86.		
9A0005	Σ	7	1-	39	•			•	5.	7.	•
89A00030	Ŀı	7	1-	53	0.2	5.8	3.3	1.4	80.8	19.9	9.0
9 <b>A</b> 0003	Ŀ	7	L-	50	•	•	•	•	5.	$\tilde{\zeta}$	
9 <b>A</b> 0007	Гщ	7	-7	35	•	•	•		7.	~	•
Mean				] .	17	9	4	9.	7.1	6.0	9.
Std Dev				7.2	0.13	0.27	0.27	0.34	19.68	3.78	0.12
9 <b>A</b> 0000	Σ	œ	7-	34			•	•	2.	-	
9A0001	Σ	ဘ	-7	33	•	•	•	•	پ	$_{\infty}$	•
89A00053	Σ	$\infty$	1-	48	0.3	6.5	2.9	0.8	87.2	20.9	0.8
9A0004	Ŀ	æ	7-	41	•	•	•	•	4.	$_{\infty}^{\cdot}$	•
9A0006	Ŀ	8	-7	27	•	•	•	•		7.	
9 <b>A</b> 0006	נדי	œ	-7	31	•	•	•	•	10.	ω	•
Mean				; .	٣.	9.	.2	Ψ.	6.8	.5	8.
Std Dev				7.6	0.63	09.0	0.29	0.32	10.85	3.17	0.08
940000	Σ	6	1-	57				•	9	$\infty$	
9A0004	Σ	, O	-7	42	•			•	თ	4.	•
9A0005	Σ	σ	-7	39	•	•	•	•	6	4	•
89A00026	Œ	6	-7	37	0.0	5.8	3.7	1.8	83.9	11.1	9.0
9A0003	Ŀ	6	-7	28	•	•	•	•	9	· •	٠
9A0006	ш	თ	L-	52	•	•	•	•	11.	9.	
Mean				2.	<u>س</u>	5.92	3.30	1.35	94.88	14.83	0.73
Std Dev				10.5	0.62	9.	. 2	ε.	5.2	9.	٦.

				Appendix G		(cont.):	SERUM	CHEMISTRY		
Animal Sex Group Day	Sex	Group	Day	CAL	PHOS	NA	CL	*	IRON	MAG
89A0C006	Σ	10	-7	10.8	5.5	156.3	106	4 4	8 86	2,00
89A0C044	Σ	10	۲-		7.2	153.3	112	4.8	123.3	200
89A0C057	Σ	10	۲-	6.6	4.9	154.6	116	4.8	144.6	68. j
89 <b>A</b> 00034	Ŀ	10	۲-	11.0	4.8	155.9	118	4.3	109.8	1,77
89 <b>A</b> 00059	ĹĿı	10	(-	6.6	5.9	150.7	109	4.4	184.1	1.65
89 <b>A</b> 00067	ĹĿ	10	L-	10.4	5.3	152.1	111	5.2	162.7	1.60
Mean					5.60	153.82	112.0	4.65	137.22	1.703
Std Dev				0.51	0.88	2.19	4.4	0.34	32.63	0.108

		ļ		Appendix	ტ	(cont.):	SERUM	CHEMISTRY		
Animal Number	Sex	Group	Бау	CAL	PHCS	AN	CL	エ	IRON	MAG
89 <b>A</b> 00012		-	1-	10.9		51.			ω.	$\infty$
89A00042		<b>.</b>	7-	10.7	•	53.		•	ω,	9.
89A00058		-	1-	•	•	55.	$\overline{}$	•	99.	9.
89A00022		7	1-	0.	•	51.	$\overline{}$	•	65.	9.
89 <b>A</b> 00038	Ŀ	-	-7	11.4	3.0	155.7	115	4.8	210.3	1.83
89A00072		-	7-	•	•	56.	$\overline{}$	•	23.	ω.
Mean					•	153.90		1 .	152.25	
Std Dev				0.82	1.27	2.1	2.5	0.15	76.6	. 12
89800003		2	7-	•		51.	_	•	4.	9.
89A00009		2	٢-		•	56.	~	•	77.	7.
89A00047		2	7-	10.9	•	51.	$\overline{}$	•	63.	9.
89A00031	Ŀı	7	-7	11.4	4.9	153.5	116	4.8	159.0	1.55
89A00063		2	۲-	7.6	•	56.	$\vdash$	•	4.	۲.
89A00066		5	۲-	•	•	54.	$\overline{}$	•	σ,	7.
Mean					8.	0.	1 .	9.	1.4	99.
Std Dev				0.66	0.56		1.5	0.10	36.15	0.080
8940000		(*	7-	8		ر در	_		7	5
89A00045	Σ	) M	,		5.6	155.4	117	4.5	0.06	1.60
89A00052		æ	۲-	10.2	•	56.	$\vdash$	•	04.	۲.
89A00025		m	۱-		•	55.	$\leftarrow$	•		١.
89A00033		m	7-	11.2	•	53.	$\vdash$	•	23.	∞.
89A00064		m	-7	•	.•	51.	$\Box$	•	9	Υ.
Mean				10.50	10	154.33	116.0		117.22	1.633
Std Dev				•	0.62	1.7	•		25.2	.17

				Appendix						
Animal Number	Sex	Group	Бау	CAL	PHOS	A N	СГ	쪼	IRON	MAG
980001	Σ	'7	1-	10.7	•	54.		•	7.	∞.
	Σ		-7	11.3	•	53.		•	8	9.
980005	Σ	4	7	9.3	4.6	149.5	115	5.0	182.6	1.83
9A0002	لعا	4	۲-	<u>,                                    </u>	٠	50.	~	•	83.	7.
9A0003	<u> [1</u>	4	1-	12.1	٠	55.		•	06.	6.
89A00071	Гu	4	-7	0	•	53.	-	•	73.	Α.
26.00				∞	\	3.0	1 .	1.	0.3	7.
Std Dev				0	0.53	2.42		0.37	58.32	0.167
0000046	Σ	Ŋ	-7	11.4		54.		•	32.	9.
9A0001	Σ :	יא ני	-7			53.	7	•	77.	. 7
9A0004	Σ	S	1-	10.2	4.6	150.3	112	4.8	91.0	1.61
9A0002	(±	. 2	1-		•	57.	$\vdash$		10.	۲.
9A0006	Ĺŧ	2	1-	6.6	•	55.	$\vdash$	•	55.	9.
89A00069	Ĺų	5	L-		•	53.		•	01.	. 5
<b>V</b>				9	. 2	54.2	13.	9	4.6	.65
Std Dev				0.70	0.64	2.37	1.5	0.26	26.56	0.084
000040	2	¥	7-			54	,		45.	7.
90005	ΞΣ	<b>2</b>				51.	, <del>, ,</del>		09.	7.
9 <b>A</b> 0005	Σ:	s ve	1	•	•	53.	Ţ		97.	7.
9A0002	: <u>[</u>	9	1-	10.9	4.2	153.2	117	5.1	214.2	2.19
9A0004	, [t.	9	1-		•	54.	Ţ	٠	45.	φ,
89A00061	, Eu	9	1-	•	•	52.	J	•	15.	∞.
Mean				ω.	.2	J. W.		8	171.32	1.848
Std Dev				0.96	0.88			0.32	71.9	. 17

									1	
Animal Number	Sex	Group	Бау	ÇAI.	PHOS	a N	CL	쪼	IRON	MAG
91000886		7	۲-	<del></del>		154.7			5.	$\infty$
39400043		, ,	٠ ٢ -	~ 0.		,	~		59.	9.
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		, ,	ί-				_	•	21.	9.
19400030		, /.		11.3		156.1	. 18	4.7	144.1	1.59
39400035		, ,		11.3	•	3.5	$\neg$	•	18.	7.
89A00070	بنتي	,	Ĺ-	10.1	5.2	5.1	$\overline{}$	•	42.	9.
000				1		٠,		1.	5	9
Std Dev				0.71	0.73	-		0.21	45.2	60.
10000400		α	-3			55.			28.	9.
394000013		ο	- [	• · · · · · · · · · · · · · · · · · · ·		55.	~	•	9.	ω.
2400753		σ	- [-]	•		50.			34.	.5
3 <b>2 4</b> 0 0 3 5 5		oc	-7	χ. Τ.	3. S	155.5	113	4.2	73.7	1.64
89A00362		ω	7-		•	53.		•	7.	9.
39A00J68	<u>.</u>	80	۲-	10.0	•	55.	٦	•	65.	0.
<b>M</b>					-	54.4		4.	ا س	1.742
Std Dev				08.0	0.94	1.93		0.26	$\infty$ .	. 17
00000		σ	7-	9.01		54.	-		2.	. 4
90000		no	-7	9.6	5.2	152.9	114	4.6	9.98	1.57
200040		5	۲-		•	53.	-4	•	11.	۲.
000000		n	-7		•	56.	$\overline{}$	•	9.	6.
2000110 940.003	. ~	5	1-		•	55.	_	•	15.	9.
89A00060	. <u>С</u>	6	L-		•	55.	<del></del>	•	84.	$\infty$ .
0 0 <b>X</b>				5	2	7.	117.2	4.80	126.62	1.692
rean por				92.0	0 61		,	. 1	32.5	. 18

	i	,		Append	pendix G	(cont.):	SERUM	CHEMISTRY			
Animal Sex Group Day Number	Sex	Group	Лау	ALT	AST	ALK	ГОН		CK	B1L1	СНОГ
800000	Σ	0	C	r c.	900		6				
	: :	) (	<b>&gt;</b> (	/	70.1	45./	37.5	4.4	198.42	00.0	201.7
89AU0044	Σ	10	9	34.5	35.1	105.5	260.4	3.4	200.39	00 0	211 4
89A00057	Σ	10	0	41.5	24.0	54.1	88.6	0.4	292 80	00.0	1001
89 <b>A</b> 00034	Ĺ	10	0		23.9	40.0	85.9	î	00.78		167.7
89A00059	ĹĿ	10	0	25.3	31.7	77.7	196.2	- VC	193.70	00.0	113
89A00067	Ĺ	10	0		41.2	52.6	472.7	2.7	792.24	00.00	223.9
Mean				29.53	30.17	62.60	197.73	4.30	294.26	000 0	172 45
Std Dev				7.30	7.09		153.11		252.44	000.0	46.25

Animal Number	Sex	Group	Day	ALT	AST	ALK	ГДН	667	CK	B11.1	СНОГ
9 <b>A</b> 0001	Σ	<b>,</b> —	0	ص	2	ထ	9		ر م	0.	54
980004	Σ		0		9	9			42.3	0	67.
89A00058	Σ	۱	0	31.7	32.8	9.99	121.1	3.7	406.06	00.00	219.7
9A0002	Ē	7	0	ω.	3.	ω.	13.		06.4	0.	50.
9A0003	Œ	<b></b> 1	0	2	7.	0	51.	•	97.5	0.	31.
9 <b>A</b> 0007	Ŀı	1	0	. 9	9	•	4.		59.6	0.	28.
Mean				۲.	8.3	0.2	6.4	9.	35.1	00.	75.2
Std Dev				8.08	5.46	8.51	76.38	1.53	111.08	0.000	40.98
9 <b>A</b> 0000	Σ	7	0	5.	9.	9.	50.	•	4.1	0.	55.
9A0000	Σ	2	0	i	ω	9.	58.	•	94.9	0.	85.
89A00047	Σ	7	0	24.3	23.0	39.6	110.2	2.1	122.28	00.00	142.3
9A0003	Ŀı	2	0	0	,-	2.	91.	•	24.6	0.	65.
9A0006	Ŀ	7	0	<b>∵</b>	6.	2.	30.	•	58.2	0.	69.
9 <b>A</b> 000 <b>6</b>	Ŀ	2	0	S.	7.	1.	83.	•	07.6	0.	74.
Mean				.5	9	9.1	53.9	9	08.6	00.	5.4
Std Dev				3.40	7.67	10.87	116.77	2.62	358.55	0.004	15.00
9 <b>A</b> 0000	Σ	m	0	4.	80	9	02.		59.2	٠.	70.
89A00045	Σ	m	0	25.6	25.4	48.4	82.3	3.6	136.46	00.00	176.6
9 <b>A</b> 0005	Σ	מז	0	9	9	0	19.	•	08.1	0.	78.
9A0002	ודי	m	0	0	9	5.	41.	•	92.6	٠,	89.
9A0003	Ŀ	m	0	9.		9	57.	•	45.4	0.	64.
9 <b>A</b> 0006	Ĺ	м	0	<u>.</u>	7.	4	21.	•	29.5	0.	82.
ean				26.88	32.67	48.60	137.37	3.62	195.25	0.107	176.85
std Dev				٥.	0.0		y.		41.0	0 .	0.

Appendix G (cont.):

(cont.):

G

Appendix

164.57 48.90 156.53 19.69 181.92 36.15 227.8 208.0 117.3 135.8 184.9 181.9 152.1 140.3 168.0 129.1 234.1 206.2 190.1 175.3 137.1 148.7 CHOL 0.000 0.000 0.095 00.00 BILI 00.00 0.12 0.00 0.00 0.45 0.00 263.64 183.48 98.89 761.53 194.55 140.06 482.52 509.90 99.75 144.31 205.32 145.24 247.34 262.94 249.77 297.10 135.17 334.03 248.92 68.14 787.77 411.49 130.11 CK 2.78 3.00 4.68 4.0 0.9 4.2 4.2 0.4 5.7 4.4 4.8 5.2 4.0 2.3 1.7 4.1 4.4 2.8 1.4 GGT 137.70 56.41 136.15 82.22 129.67 61.26 1114.1 195.3 120.3 47.7 152.7 196.1 68.9 149.5 122.6 41.7 275.8 158.4 171.5 215.4 147.5 45.2 85.9 112.5 LDH 66.38 15.86 53.50 64.73 21.01 75.0 56.3 43.1 53.5 102.1 58.3 62.5 46.3 43.6 52.6 57.7 90.1 75.0 42.1 65.1 ALK 30.35 30.48 31.02 7.11 23.7 34.9 32.2 25.8 30.3 24.6 29.1 24.6 21.7 55.8 31.1 34.0 38.7 24.3 37.1 AST 29.08 6.30 22.60 5.66 9.42 28.20 18.6 37.8 32.4 37.4 27.3 19.6 32.3 30.8 29.6 37.7 24.5 15.0 31.3 26.2 22.9 20.8 Day 000000 00000 00000 Group 000000 4 4 マ マ 22222 Sex ΣΣΣωωω ΣΣΣωμω ΣΣΣμμμ 89A00039 89A00071 89A00048 89A00056 89A00020 89A00046 89A00050 89A00029 89A00018 89A00007 89A00004 89A00011 89A00027 89A00065 89A00069 89A00051 89A00041 89A00061 Animal Number Std Dev Std Dev Std Dev Mean Mean Mean

E

				Appendix	ى ت	(cont.):	SERUM	CHEMISTRY			
Animal Number	Sex	Group	Day	ALT	AST	ALK	ТЪН	199	CK	BILI	СНОГ
940001	Σ	7	C	σ	_	_	00		9 00		4
POOLE	Σ	, ,	o C		1 C	•	•	•	43.9		, ,
89A00054	Σ:	٠ ر	0	30.1	30.6	49.1	97.8	8.	272.24	00.00	197.7
9 <b>A</b> 0003	لعا	7	0	7	4.	4	30.	•	93.5	0.	17.
9 <b>A</b> 0003	ĹΤι	7	0	ω.	ი	4.	3.	•	9.9	0.	70.
9 <b>A</b> 0007	ĹŁ	7	0	Э.	4.	9.	89.	•	03.8	0.	17.
Mean				9.9	4.	4.8	32.3	4.1	67.3	00.	0.3
Std Dev				13.11	6.50	14.25	108.70	2.14	267.75	0.000	43.01
9 <b>A</b> 0000	Σ	80	0		4.	7.	9.	•	03.8	0.	10.
9 <b>A</b> 0001	Σ	8	0	•	;	ω.	ب	•	60.1	0.	79.
89A00053	Σ	80	0	25.0	34.8	53.8	162.5	3.8	357.49	00.0	195.9
9A0004	بترًا	80	0		$\overset{\sim}{\cdot}$	9.	5.	•	88.5	0.	47.
9 <b>A</b> 000 <b>6</b>	Œ	æ	0	•	0	0	33.		62.5	0.	64.
9 <b>4</b> 0006	ſτι	8	0	•	1.	0	29.	•	14.6	0.	19.
Mean					9.2	0	8.9	3.8	4.5	0.	9.6
Std Dev				7.03	4.35	8.41	37.39	1.50	73.33	0.028	33.01
9 <b>A</b> 0000	Σ	9	0		0	2	4.		01.9	0.	67.
9A0004	Σ	6	0		4.	2.	01.	•	7.4	0.	28.
89A00055	Σ	0	0	21.1	25.8	47.8	112.1	4.2	90.03	00.0	144.7
9 <b>A</b> 0002	Ŀц	6	0	٠	ω	ь 6	28.	•	8.8	0.	74.
9A0003	Ŀ	6	0	•	7.	و	ζ.	•	69.1	0.	91.
9 <b>A</b> 0006	[I.	σ	0	•	ж Э	7.	05.	•	66.1	0.	73.
Mean				24.45	27.47	56.28	198.88	4	227.27	0.000	163.47
Std Dev				0.	7.7	2.5	48.7	0.9	86.5	00.	22.

0.68 0.7 0.7 0.7 0.7 0.6 CR 17.50 6.20 11.5 27.2 15.9 14.2 13.2 23.0 BUN 88.90 89.3 91.5 104.9 93.5 79.1 GLU CHEMISTRY 1.36 1.1 0.9 1.7 1.9 1.4 A-G 3.40 33.7 SERUM ALB 6.06 6.0 6.7 5.7 5.9 6.0 (cont.): 0.10 URIC 0.1 0.2 0.1 0.0 0.0 G Appendix 45.3 TRIG 27 68 29 34 24 Day 000000 Group 10 10 10 10 Sex ΣΣΣμμμ 89A00006 89A00044 89A00057 89A00034 89A00059 Mean Std Dev Animal Number

			į	Appendix	ტ	(cont.):	SERUM CI	CHEMISTRY			:
Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
9 <b>A</b> 0001	Σ		0	27	•	•		•	5	2.	
9A0004	Σ	٦	0	47	•	•	•	•	· ω	8	•
9 <b>A</b> 0005	Σ	7	0	50	•	•	•	•	5.	ь Э	•
9 <b>A</b> 0002	Œ	7	0	24	•	•	•	•	0	5.	•
89 <b>A</b> 00038 89 <b>A</b> 00072	נדו נדו	~ ~	00	32 50	0.1	5.6	3.3 3.2	0.9	82.6 79.6	15.7 23.0	0.7
Mean Std Dev				38.3	0.35	5.93	3.18	1.17	90.43	17.28	0.77
980000	Σ	^	С	30	•				6	۲,	
9 <b>A</b> 0000	Σ	7	0	3.5	•			•	9	. 2	•
9A0004	Σ	7	0	51	•	•	•	•	4.	•	•
9A0003	Ē	7	0	46	•	•	•	•	3.	•	•
89A00063 89A00066	נבי נבי	7 7	00	45 55	0.0	6.8 6.4	3.5 3.4	1.1	74.0 76.4	16.4 24.4	0.7
								- 1			
Mean Std Dev				43.0	0.35	5.98	3.38	1.35	87.20 11.10	15.73	0.73
9 <b>A</b> 0000	Σ	m	0	29	•	•	•	•	9.	5.	•
9A0004	Σ	c	0	48	•	•	•	•	9	9	•
9 <b>A</b> 0005	Σ	e	0	43	•	•	•	•	96.	9	•
9 <b>A</b> 0002	נבו ו	m (	0	8 °°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	•	•	•	٠	ب	۲,	٠
89A00033	בון (בו	n m	00	7 <i>7</i>	0.3	5.2	3.1	1.5	76.4	14.8 16.2	0.9
Mean Std Dev				43.3	0.40	5.90	3.37	1.34	88.12	16.08	0.75

SERUM

(cont.):

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0.73 0.68 0.77 0.8 0.3 0.7 0.7 0.8 0.7 0.7 0.7 0.6 0.7 0.7 0.8 0.8 0.8 0.8 CR18.35 8.86 14.67 3.34 17.87 10.1 10.1 19.6 15.0 21.7 33.6 12.4 19.8 15.0 11.0 17.6 12.2 23.7 18.6 12.2 16.3 24.2 BUN 89.50 10.57 91.10 91.07 79.9 95.1 96.9 104.2 80.7 96.1 88.6 92.9 96.5 88.1 81.0 101.6 101.0 93.5 90.8 78.5 GIO  $1.32 \\ 0.16$ 1.52  $1.61 \\ 0.36$ 1.3 1.4 2.0 1.9 A-G 1.2 1.3 1.1 1.5 1.5 1.3 1.5 1.5 1.0 1.9 3.48 3.25 3.55 4.0 6.0 6.0 6.0 6.0 6.0 6.0 33.7 3.1 ALB 5.84 5.73 m5.9 5.7 6.6 6.0 6.0 5.7 5.8 5.8 6.1 5.6 5.6 6.2 6.0 5.7 5.8 5.83 .30 .43 .38 URIC 0.2 0.1 0.3 1.6 0.1 0.0 0.2 0.0 1.6 0.3 0.00 39.2 12.7 50 8 4 TRIG 40. 39.8 26 22 32 32 56 59 36 47 54 21 29 48 24 53 443 38 39 Day 00000 00000 00000 Group ਰਾ ਰਾ ਰਾ ਰਾ ਰਾ 22222 999999 Sex ΣΣΣωωω ΣΣΣωωω ΣΣΣμμμ 89**A**00051 89**A**00029 89**A**00056 89**A**00020 89A00018 89A00048 89A00039 89A00046 89A00069 89A00007 89A00050 89A00004 89A00011 89A00027 89A00065 89A00041 89A00071 Mean Std Dev 89A00061 Mean Std Dev Animal Number Std Dev Mean

0.75 0.78 0.72 0.7 0.6 0.7 1.0 0.8 0.8 0.0 0.0 0.8 0.8 0.8 0.7 0.7 0.7 0.7 CR 15.53 3.45 15.97 3.45 16.03 1.8910.3 15.3 18.0 15.3 20.7 9.1 18.7 15.4 15.0 17.8 15.9 16.0 16.6 14.4 14.0 92.72 87.40 16.29 93.67 95.5 95.8 97.4 82.6 73.5 101.4 101.6 87.7 75.3 61.2 80.6 106.0 97.0 99.9 92.9 85.6 GTO 1.76 1.42 1.41 1.4 1.6 0.8 1.5 1.7 1.8 1.6 1.3 1.8 2.7 A-G 1.1 0.9 1.2 2.2 1.4 3.48 3.30 3.37 3.75 3.39 3.39 3.49 3.6 3.2 3.2 3.6 3.6 3.4 ALB 33.1 5.93 5.57 5.73 5.6 5.8 5.8 5.8 5.8 5.9 6.3 7.3 5.3 7.3 6.0 6.0 5.3 5.9 0.30 0.40 0.15 URIC 0.3 0.0 0.1 1.6 0.1 0.3 0.0 0.1 0.0 0.0 0.0 33.2 40.7 46.2 TRIG 28 40 39 36 35 35 34 41 52 45 70 35 34 34 25 35 35 Day 000000 00000 00000 Group r**∞** ∞ ∞ ∞ ∞ ∞  $\sigma\sigma\sigma\sigma\sigma\sigma\sigma$ Sex ΣΣΣμμμ ΣΣΣμμμ ΣΣΣωωω 89**A**00005 89**A**00049 89A00019 89A00030 89A00055 89A00026 89A00037 89A00043 89A00054 89A00035 89A00070 89A00001 89A00013 89A00053 89A00040 89A00062 89A00068 89A00060 Mean Std Dev Animal Number Std Dev Std Dev Mean Mean

SERUM

(cont.):

G

				Appendi	Appendix G (cont.):	ont.):	SERUM	CHEMISTRY			
Animal Sex Group Day Number	Sex	Group	Day	CAL	PHOS	NA	CL	Ж	IRON	MAG	
90000000	Σ	-	C	10.3	4	154.1	116	5.4	99.7	1.66	
89400044	Ξ	9 0	o C	11.6	6.9	163.4	120	5.0	167.5	1.85	
89A00057	Σ	01	0	9,6	5.5	147.5	116	4.6	171.7	1.81	
89400034	[1	10	0	10.5	4.4	154.5	118	4.4	135.1	1.73	
89A00059	، [حر	10	0		4.9	150.6	112	4.3	179.9	1.38	
89A00067	Ĺ	10	0	10.8	5.7	157.2	117	5.1	297.4	2.09	
M Creat				10.53	5.28	154.55	116.5	4.80	175.22	1.753	
Std Dev				0.66	0.97	5.49	2.7	0.43	66.84	0.234	

				Appendix	ဗ	(cont.):	SERUM	CHEMISTRY			
Animal Number	Sex	Group	Бау	CAL	PHOS	NA	CL	ズ	IRON	MAG	
89 <b>A</b> 00012	Σ	Н	0		•	53.	$\vdash$	•	9	9.	
89A00042	Σ	-	0			55.	٢	•	31.	.5	
89A00058	Σ	1	0	•	•	54.	$\leftarrow$	•	13.	.5	
89A00022	بعا	1	0	10.7	4.4	154.0	115	4.6	122.9	1.58	
89A00038	Ŀı	1	0	•	•	53.	$\overline{}$	•	15.	7.	
89A00072	נדי	П	0	•	•	50.	$\leftarrow$	•	39.	. 7	
Mean					0.	9.	•	7.	4.7	. 64	
Std Dev				0.77	0.75		7	0.15	96	0.097	
89A00003		2	0		•	52.	$\vdash$	•	9	9.	
89A00009	Σ	2	0	10.9	4.0	153.6	117	4.1	45.2	1.72	
89A00047		2	0	•	•	53.	┌┥	•	61.	9.	
89A00031		7	0	•	•	54.	~	•	ω	9.	
89A00063		7	0		•	55.	⊣	•	36.	9.	
89A00066		7	0	•	•	59.	2	•	7.	. 7	
Mean				10.47	8.	8	١.	9.	9.2	99.	
Std Dev				0.27	0.46	2.63		0.34	39.34	0.053	
89800002		m	0			54.	⊣	•	0	9	
89A00045	Σ	m	0	8.6	5.1	154.6	118	4.9	54	1.62	
89A00052		m	0		•	48.	0	•	ъ 6	.5	
89A00025		m	0	•	•	54.	$\vdash$	•	27.	۲.	
89A00033		κ	0	•	•	54.	$\vdash$	•	26.	. 7	
89A00064		m	0	•		47.	$\vdash$	•	61.	9.	
Mean						152.53	114.5	4.88	128.13	1.660	
Std Dev				•	. 5	3.4	•	4.	28.6	90.	

				•		. (	HOWER	CREMISIRI		
Animal Number	Sex	Group	Бау	CAL	PHOS	NA	CL	쪼	IRON	MAG
9 <b>A</b> 0001	Σ	4	0	10.6		55.	<del></del>	•	ω	
9A0004	Σ	4	0	•		54.	2	•	0	7.
9A0005	Σ	<b>ተ</b>	0			55.	$\overline{}$	•	73.	.5
89A00020	Ġ,	4	0	10.9	4.8	152.1	115	5.1	117.8	1.70
9 <b>A</b> 0003	Ĺ	4	0			54.	$\leftarrow$	•	4.	9.
9 <b>A</b> 0007	Œ	4	0	•	•	50.	$\overline{}$	•	4.	. 5
Mean				5.	6.	10		8.	1.5	.65
Std Dev				0.70	99.0		1.9	0.30	70	0.106
9 <b>A</b> U000	Σ	S	0		•	54.	-	•	2.	. 5
9A0001	Σ	2	0			53.	7	•	1.	9.
89A00046	Σ	S	0	6.6	4.5	153.6	118	4.7	91.7	1.60
9 <b>A</b> 0002	Ĺų	S	0		•	55.	<b>-</b> :		2.	9.
9 <b>A</b> 0006	ĮΉ	5	0		•	55.		٠	4.	9.
9 <b>A</b> 0006	[z,	2	0			46.	<del>-1</del>		11.	9.
Mean				4	6.	17		5.	8.9	. 62
Std Dev				0.49	0.49		7	0.19	54.36	0.034
89A00007		9	0		•	53.	$\vdash$	•	. 09	7.
89A00050	Σ	9	0	10.3	5.7	153.8	114	5.1	324.2	1.72
89A00051		9	0		•	53.	$\leftarrow$	٠	31.	9.
89A00029		9	0		•	51.	$\vdash$	•	94.	9.
89A00041		9	0		•	51.	$\vdash$	•	0	7.
89 <b>A</b> 00061		9	0		•	51.	$\vdash$	•	13.	9.
C.				10.18	5.28	152.58	114.0	4.82	172.45	1.693
Std Dev				۶.	9.	0	•	٠.	4.6	.03

				Appendix	ტ	(cont.):	SERUM	CHEMISTRY		
Animal Number	Sex	Group	Бау	CAL	РНОЅ	NA	CL	*	IRON	MAG
9 <b>A</b> 0000	Σ	7	0	0		56.	. →		ω	7.
9 <b>A</b> 000	Σ	7	0	0		52.	$\leftarrow$	•	89.	. 5
9 <b>A</b> 000	Σ	7	0	0	•	54.	$\vdash$	•	ω	4.
89A00030	Ŀ	7	0	11.0	4.8	154.0	120	4.9	170.9	1.64
9 <b>A</b> 000	ĹŁ	7	0	0		51.	~	•	α	ω.
9 <b>A</b> 000	ĹĿı	7	0	0	•	53.	7	•	17.	6.
Mean				4.	6.	19.		6.	4.0	69.
Std Dev				0.39	0.39		7	0.46	62.89	0.185
89 <b>A</b> 00001		∞	0			55.	7	•		9.
89A00013		80	0		•	54.	7	•	58.	9.
89A00053	Σ	80	0	9.1	4.8	149.7	111	4.9	81.5	1.42
89A00040		80	0		•	52.	$\vdash$	•	7.	7.
89A00062		80	0	•	•	49.	$\vdash$	•	79.	.5
89 <b>A</b> 00068		80	0		•	59.	7		5.	۲.
Mean				٣.	9.	.5	١.	9.	0.7	. 63
Std Dev				0.70	0.39	3		0.50	23.93	0.127
89800005		0	0		•	55.	٦		9.	9
89A00049		6	0		•	57.	⊣	•	10.	.5
89A00055	Σ	6	0	9.8	5.7	152.9	115	4.7	131.2	1.58
89A00026		σ	0		•	54.	Ţ	•	50.	∞.
89A00037		σ	0		•	54.	Н	٠	41.	۲.
89A00060		6	0		•	50.	$\vdash$	•	44.	ω.
Mean					١.		١.		129.60	1.718
Std Dev				0.55	4	2.3	1.8		0.4	. 11

				Appendi	S S	<pre>&gt;endix G (cont.):</pre>	SERUM	CHEMISTRY			
Animal Sex Group Day Number	Sex	Group	Day	ALT	AST	ALK	ТДН	CGT	CK	BILI	СНОГ
89800006	Σ	10		32.3	29.9	36.4	178.7	E1 N	192.41	00.00	195.3
89800044		10	-	49.6	33.1	106.6	151.8	3.4	179.04	0.00	169.4
89400057	Σ	10	-	37.0	20.1	54.9	96.4	1.6	127.27	00.00	143.4
89400034	Ĺ	10			24.5	40.8	86.4	8.7	68.78	00.00	164.1
89800059	, [±	10	, ,-	33.5	31.4	75.2	197.7	0.3	184.36	00.00	110.9
89A00067	Ĺ	10	- 7		27.0	58.0	124.7	3.0	242.14	00.0	212.1
Mean					27.67	61.98	139.2c		165.67	0.000	165.87
Std Dev				9.16	4.82	25.82	44.66	3.21	59.92	0.000	36.18

				)   						+	
Animal Number	Sex	Group	Day	ALT	AST	ALK	Грн	GGT	CK	ВІГІ	СНОГ
9 <b>A</b> 0001	Σ	7	-		9	74.	9		00.7	0.	32.
9A0004	Σ	-	-	6		02.	ω,		66.3	0	57.
9 <b>A</b> 0005	Σ	_	_	4	9.	68.	<u>.</u>	•	94.2	0.	17.
9 <b>A</b> 0002	ĹΨ		-	7.		38.	68.		98.3	0.	40.
89A00038	Ŀı	7	-	23.8	69.3	100.7	137.8	3.8	115.70	00.00	200.4
9 <b>A</b> 0007	ĹĿ	1	٦	0	9	α	61.	•	53.0	0.	20.
Mean				(m.	2.5	7.0	9.1	4.	38.0	00.	61.5
Std Dev				65.83	43.12	34.62	44.06	2.22	39.12	000.0	39.19
9 <b>A</b> 0000	Σ	2	٦	134.1	18.	22.	04.		02.4	0.	38.
89A00009	Σ	2			60.5	106.7	88.9	5.0	91.23	00.00	173.2
9 <b>A</b> 0004	Σ	2	_		52.	24.	ω.	•	03.8	0.	22.
9A0003	ĹĿij	2	۲		93.	68.	2	•	14.5	0.	77.
9 <b>A</b> 0006	Ĺ	2	-		12.	84.	63.	•	24.2	0.	45.
9 <b>4</b> 0006	Ŀı	5	7	•	16.	20.	2.	•	11.4	0.	47.
Mean				β.	08.7	7.8	3.1	J.	1.3	00.	50.
Std Lev				37.57	30.39	30.80	52.44	1.65	52.63	0.000	20.91
9 <b>A</b> 0000	Σ	m	-	100.5	07.	84.	75.	•	16.4	0.	49.
9A0004	Σ	κ	Н	6	.09	36.	56.		05.9	0.	70.
89A00052	Σ	m	1	259.6	380.1	160.1	162.3	4.3	697.28	00.0	172.1
9 <b>A</b> 0002	ĹĿij	m	~		95.	99.	65.	•	62.9	0.	74.
9 <b>A</b> 0003	Ŀ	സ	Н		57.	50.	53.	•	71.5	0.	38°
9 <b>4</b> 0006	[II	m	-	Ф	06.	41.	72.	•	66.7	0.	81.
Mean					68.1	5.	6.	١.	320.16	0.000	164.38
Std Dev					107.45	28.2	47.	•	25.8	0.	16.6

Appendix G (cont.):

SERUM

(cont.):

G

164.63 35.91 21.87 182.35 163.48 210.4 202.6 137.0 144.6 17C.0 149.7 171.3 127.8 175.2 200.5 160.2 154.0 166.6 186.2 185.5 207.7 CHOL 0.000 0.000 0.000 BILI 00.00 93.31 192.28 111.80 146.32 230.77 192.31 148.04 152.31 210.50 342.61 195.36 189.02 297.26 137.18 105.77 146.08 335.06 201.73 93.31 155.97 50.82 206.86 71.02 CK 4.27 2.58 5.45 6.6 6.4 0.7 4.9 2.2 4.8 1.3 9.4 9.5 1.3 0.5 0.5 2.2 5.8 112.5 3.1 5.0 4.1 GGT 127.58 61.62 50.15 39.18 142.42 121.77 34.1 169.2 128.6 101.0 167.5 120.0 102.5 180.7 187.0 92.3 248.7 1118.5 107.9 77.0 163.1 101.2 LDH 71.02 59.90 15.3624.12 66.67 67.3 110.0 63.4 43.5 73.7 59.7 41.4 49.2 110.2 68.8 53.2 63.6 85.4 38.5 56.9 70.7 ALK 40.22 29.20 5.30 31.48 21.7 37.4 25.2 27.8 33.0 33.2 27.4 28.1 27.6 41.2 31.4 34.8 39.8 75.1 22.6 40.1 28.9 AST 193.83 241.06 40.77 67.97 78.21 80.48 126.6 59.8 99.2 30.4 45.5 24.3 257.8 646.7 32.5 169.1 38.5 227.1 28.2 42.3 42.5 29.2 ALL Sex Group Day -------------0000000 4 4 4 4 4 4 22222 ΣΣΣωωω ΣΣΣμμμ ΣΣΣωωω 89A00039 89A00071 89A00046 89A00029 89A00018 89A00048 89A00056 89A00020 89A00027 89A00065 89400069 89A00050 89A00004 89A00011 89A00007 89A00051 89A00041 Animal Mean Std Dev 89**A**00061 Number Std Dev Std Dev Mean

				Appendix	ŋ	(cont.):	SERUM	CHEMISTRY			
Animal Numbe:	Sex	Group	Day	AL·F	AST	AI,K	Грн	GGT	CK	ВІБІ	СНОГ
	;	r			,	ר נ			(	(	C
AMOUNT	Σ	_	4	γ.	·	. / /	04.	٠	an.c	·	32.
9A0004	Σ	7		4	7	30.	20.	٠	28.0	0.	20.
9A0005	Σ	7	F 4	7	4.	60.	34.	•	90.6	0.	93.
89A00030	Ŀ	7	7	21.8		ς	8		$\vdash$	0.00	90.
9A0003	Ŀ	7	-	<u>,                                    </u>	<u>ر</u>	14.	11.	•	61.2	0.	53.
	ĹĿ	7		2.	4.	39	6.09	3.6	. 4	0.	100.1
Mean				15.	7.3	55.7	43.2	.2	26.1	00	48.2
Std Dev				$\sim$	11.70	61.90	104.71	2.71	157.10	0.000	37.76
980000	Σ	00		6		69.	&		41.3	0	98.
940001	Σ	- α	· <del></del>	~	9	05.	O		99.1	0	47
2000AP	Σ :	α	- ،	) (	· >	4.2	ο α		7 60	·	ά
89400040	<u>.</u>	) α	- ۱	18.	58.4	139.3	52.3	) w	146.43	00.0	120.8
980006	וב	ထ	ı	· ~	4.	15.	د		04.7	0	32.
89A00068	[Li	8	<b>~</b>	9.	0	83.	60.	•	33.0	0.	04.
Mean				4.	7.9	9.2	7.5	6.	2.3	00.	8
Std Dev				5.37	5.59	33.15	65.5	2.08	74	0.012	37
000046	Σ	σ	,	~,	σ	76	و ح		18.3	0	44
89A00049	Ξ	9	٠.	64.0	104.6	146,0	122.6	10.5	158.90	00.00	100.0
9A-005	Σ	თ	-	1.	63.	14.	9.	2.	96.0	0.	29.
9A0002	Ĺų	σ	~	ω,	7.	56.	52.	•	2.2	0.	45.
9A0003	Ŀı	6	٦	2.	و	94.	81.	•	9.0	0.	62.
9 <b>A</b> 0006	Ŀı	6	Н		9.	56.	4.	•	10.9	0.	59.
Mean				30.32	0.6	0.6	61.	٣.		0.000	140.33
Std Dev					19.26	30.56	5.8	3.60	01.5	0.	23.0

Appendix G (cont.): SERUM CHEMISTRY

Animal Sex Group Day	Sex	Group	рау	TRIG	URIC	TP	ALB	A-G	СТО	BUN	CR
89A00006	Σ	10		27	0.2	5.6	3.3	1.5	93.3	14.4	0.8
89A00044	Σ	10	_	50	0.1	5.9	2.8	6.0	97.2	17.3	0.7
89A00057	Σ	10	-	40	0.3	5.4	3.3	1.6	84.7	17.5	0.2
89A00034		10	-	63	0.2	6.1	3.5	1.3	9.66	13.5	0.7
89A00059	لدا	10	1	30	0.3	0.9	3.2	1.2	78.5	15.5	9.0
89 <b>A</b> 00067		10	٦	77	0.1	0.9	3.2	1.1	105.7	14.0	9.0
Mean Std Dev				47.8	0.20	5.84	3.22 0.23	1.26	93.17	15.37	0.60

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89 <b>A</b> 00012	Σ	-	-	45	•	•	•	•	8	7.	
89A00042	Σ	-	-	21	0.0	5.6	3.1	1.3	100.8	12.0	0.7
89A00058	Σ	1	٦	63	•	•	•	•	94.	ب	•
89A00022	Ŀ	7	٦	LN	•	٠	•	•	,	2.	•
89A00038	ഥ	-1	_	106	•	٠	•	•	Ţ.	ب	•
89A00072	Ŀı	1	7	44	•	•	•	•	ж	ω	•
Mean				5	7.	7.	6.	0.	3	.3	7
Std Dev				31.8	0.15	0.53	0.32	0.30	7	4.39	0.08
89A00003		7	~	17	•			•		, <del>_</del>	•
89A00009	Σ	7	Н	64	0.2	5.4	2.8	1.1	90	17.8	9.0
89A00047		7	~	32	٠	•	•	٠	7.	4.	٠
89A00031		2	1	14	•	•	•	•	9	9.	•
89A00063		7	7	58	•	•	•	•	ж Э		٠
89 <b>A</b> 00066		7	-	51	•	•	•	•	5.	2	•
Mean				39.3				1.17	92.38	15.25	0.70
Std Dev				1.	┌.	7.	. 2	4.	9.9	4.6	0.
9 <b>A</b> 0000	Σ	m	-	30	•	•	•	•	9	-	•
9A0004	Σ	m	-	70	•	•	•	•	ж	4.	•
95A00052	Σ	٣	1	42	0.3	7.2	3.4	6.0	91.1	15.7	9.0
9 <b>A</b> 0002	Ē	m	П	17	•	•	•	•	H	5	•
9 <b>A</b> 0003	Į.	m	<b>~</b>	40	•	•	•	•	4	2.	•
9 <b>4</b> 0006	Œ	m	<b>~</b>	75	.•	•	•	•		7	•
Mean				45.7	0.18	6.16	3.10	1.08	87.87	13.17	0.72
Std Dev				2.	. 1	0.	· 3	· 3	7.4	۲.	Η.

Appendix G (cont.):

SERUM

(cont.):

G

0.68 0.67 0.75 0.8 0.7 0.6 0.6 0.7 0.7 0.6 0.6 0.5 0.7 0.7 0.8 0.7 0.8 0.8 CR 14.58 4.52 8.15 5.63 13.7 19.4 18.9 10.2 12.3 19.3 11.3 10.6 18.7 14.4 25.2 28.7 15.3 15.4 21.9 8.1 12.3 14.5 BUN 95.53 7.29 94.78 7.52 90.30 96.1 102.0 81.8 99.9 94.1 90.5 93.7 96.7 87.6 91.4 108.8 95.8 90.0 89.7 95.1 882.8 GLU 1.38 1.420.091.5 1.2 1.9 1.3 1.35 A-G 1.5 1.3 1.5 1.5 3.30 33.5 ALB 5.74 5.92 .84 5.5 5.8 6.2 5.7 5.8 5.4 5.5 5.9 6.3 6.3 5.0 6.0 6.3 6.0 5.6 0.15 0.18 0.15 URIC 0.1 0.2 0.0 0.0 0.0 0.1 0.2 0.3 0.0 0.0 0.1 0.3 0.2 0.1 0.3 50.3 43.8 0.6 TRIG 48. 16 25 62 50 15 49 37 51 31 54 53 45 53 17 64 48 Day --------HGroup 202020 4 4 4 4 4 4 Sex ΣΣΣωμω ΣΣΣμμμ ΣΣΣμμμ 89A00048 89A00056 89A00020 89A00039 89A00004 89A00046 89A00050 89A00029 89A00018 89A00011 89A00027 89A00065 89A00069 89A00071 89A00007 89A00051 89A00041 89A00061 Mean Std Dev Mean Std Dev Mean Std Dev Animal Number

				Appendix	ტ	(cont.):	SERUM CH	CHEMISTRY			
Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
960001	Σ	۲	,-						ر بر	¥	
70000	5	•	4		٠	•	٠	•			•
9 <b>A</b> 0004	Σ	7	<b>.</b>		•	٠	•	٠	0	0	•
9A0005	Σ	7	<b>.</b>		•	•	•	•	ω.	9	•
9A0003	Ŀ	7	7		•	•		•	6	5	
9A0003	[24	7	Н		•	•		•	ω,	7	
89A00070	ĹĿ	7	7	43	0.0	5.7	3.2	1.3	94.4	14.8	0.7
Mean				1.	-	9	1.	٣.	0.3	8	9
Std Dev				12.9	0.12	0.75	0.25	0.46	13.04	2.00	0.08
9 <b>A</b> 0000	Σ	∞	J		•	•	•	•	03.	2.	•
9A0001	Σ	80				•	•	•	2	1.	•
9A0005	Σ	· œ	, <del>, ,</del>			•	•	•	81.	ω,	
9A0004	[Eq	- α	· ~			•	•	•	5.	2	•
89A00062	Œ	80	7	29	0.2	0.9	2.6	0.8	76.4	17.2	0.7
9 <b>A</b> 000 <b>6</b>	ĹΉ	80	1	37	•	•	•	•	8	4.	•
Mean				4	-:	9	6.	┌;	4.6	0.	7.
Std Dev				14.7	0.08	0.86	0.37	0.34	15.47	$^{\circ}$	0.08
9 <b>A</b> 0000	Σ	σ	<del>, -</del> 1	31	•	•	•	•	7.	9	•
89A00049	Σ	6	1	32	0.1	6.2	2.7	0.8	103.0	19.4	9.0
9 <b>A</b> 0005	Σ	6	-	46	•	•	•	•	78.	3.	•
9A0002	Ē	6	1	LN	•	•	•	•	0	2	•
9 <b>A</b> 0003	H	σ	Н	48	•	•	•	•	æ	9	•
9 <b>A</b> 0006	ш	6	1	69	•	•	•	•	Э.	1.	•
Mean				5.	-:		2.87	1.07	٦.	16.45	0.68
Std Dev				15.4	0.12		٦.	4.	11.37	3.4	. 1

				Appendix G	ڻ ن	(cont.):	SERUM	CHEMISTRY		
Animal Sex Group Day Number	Sex	Group	Бау	CAL	PHOS	NA	CL	쪼	IRON	MAG
89A00006	Σ	10		10.8	4.6	155.1	118	4.9	136.0	1.74
89A00044	Σ	10	ч	6.6	6.2	153.4	113	5.4	92.1	1.64
89A00057	Σ	10	7	10.2	4.8	148.5	115	4.6	142.8	1.56
89A00034	Ē	10	Н	10.3	4.4	152.3	117	4.0	8.96	1.60
89A00059	Ŀı	10	~	10.3	5.3	153.2	116	4.9	270.8	1.71
89A00067	Ŀч	10	1	6.6	4.5	156.5	119	5.0	115.5	1.79
Mean				10.23	4.97	153.17	116.3	4.80	142.33	1.673
Std Dev				0.33	0.68	2.74	2.2	0.47	66.12	0.088

				Appendix	ڻ ا	(cont.):	SERUM	CHEMISTRY		
Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	쪼	IRON	MAG
100040	Σ	_	-			7.2	_		٢	4
100040	Ξ :	٠,	٠,	•			٠,	•		•
9AUUU4	Σ ;	٠,	٠,		•	T (	٦,	٠	α α	7.
9 <b>A</b> 0005	Σ	7	<b>-</b>	٠	•	50.	_	•		რ.
89A00022	Ŀı	-	-	10.0	5.6	151.5	117	4.6	85.7	1.56
9A0003	Ŀı	<b>-</b>	-1		•	52.	-	٠	7	ω.
9 <b>A</b> 0007	Ĺij	Н	-	•		55.	$\leftarrow$	•	ω	4.
W G					1 ~	52 9		ع ا	26 5	4.8
Std Dev				0.41	1.23	1.97		0.33	71.32	0.114
		c	,			C	-		u	u
89400003		7	٦ .		•	. 70	٠,	•	000	٠,
89A00009		7	_	•	•	51.	$\vdash$	•	ω.	9.
89A00047		7	~	9.6	•	49.	Ţ	•	0	٠ 4
89A00031		7	1			57.	2	•	7	.5
89A00063	Ŀı	7	-	9.4	4.5	155.9	118	4.8	83.4	1.61
89A00066		5	<b>~</b>	•		55.	2	•	ق	9.
Mean					-:	5	1 .	9	1.5	.58
Std Dev				0.51	0.75	3.19	3.0	0.27	18.17	0.082
		~	-	10.4		7	-		~	Ç
89400045		) (*	- ،		•	54.	٠, ١			
89A00052	Σ	) M		10.3	α. Θ. κ.	153.1	121	4.2	68.7	1.42
89A00025		m	Н		•	56.	2	•	щ	4.
89A00033		m	-		•	51.	⊣	•	51.	9.
89A00064		m	<b>~</b>		•	65.	7	•	1.	∞.
Mean					1 .	σ	1 .	.5	9	5
Std Dev				٦.	0.69			0.31	9.09	. 15

Appendix G (cont.): SERUM CHEMISTRY

89A00018		group pay		CAL	FROS	UN	CL	4	I ROIN	
	Σ	4				54.	7	•	70.	. 5
9A0004	Σ	4	7	10.2	5.1	154.1	115	4.5	110.2	1.48
9A0005	Σ	4	_	0	•	51.	$\overline{}$	•	12.	7.
9A0002	ĹĿ	4	1	0		49.	$\leftarrow$	•	36.	7.
9A0003	Ŀų	4	7	0	•	52.	$\vdash$	٠	51.	9.
9 <b>A</b> 0007	Ĺ	4	<b>~</b>	0	•	58.	7	•	30.	4.
Mean					-	12.	1 .	1.	5.1	. 59
Std Dev				0.24	0.52			0.15	68.25	0.108
9 <b>A</b> 0000	Σ	S	<b>—</b>		•	54.	~~	•	05.	7.
9 <b>A</b> 0001	Σ	5	_		•	53.	$\boldsymbol{\vdash}$	•	9.	9.
89A00046	Σ	5	7	9.2	4.3	154.1	117	4.2	64.9	1.58
9A0002	Ŀ	ß	Н		•	53.	~	•	86.	۲.
9 <b>A</b> 0006	Ŀ	2	7	•	•	57.	7	•	7.	۲.
9 <b>4</b> 0006	لد	2	Н		•	58.	7	•	29.	9.
Mean				4.	.2	7	1 .	9	73.7	99.
Std Dev				0.93	0.68			0.41	100.99	0.055
89A00007	Σ	9	Н			53.	2	•	37.	7.
89A00050	Σ	9	7	6.6	5.6	144.5	115	4.9	140.4	1.64
89A00051	Σ	9	1		•	58.	7	•	14.	۲.
89A00029	Ĺŧ	9	7		•	50.	Н	•	36.	9.
89A00041	Ŀų	9	7	•	•	51.	7	•	72.	.5
89A00061	Ĺ	9	<del></del>	•	. •	62.	2	•	45.	۲.
Mean				10.45	4.87	153.38	119.2	4.63	157.90	1.682
Std Dev				. 5		.5	•	. 1	3.4	90.

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	쪼	IRON	MAG
9 <b>A</b> 0001		7	-	•	•	55.	<del>.  </del>	•	9	9.
9A0004		١	<b>~</b>	•		53.	$\leftarrow$	•	62.	5
9A0005		7	-	0	•	51.	$\vdash$	•	41.	4.
9 <b>A</b> 0003		7	<del>, - 1</del>	٠	•	50.	$\leftarrow$	•	5.	. 5
89A00035	ſτι	7	٦	10.3	4.6	151.5	118	4.7	97.1	1.75
9 <b>A</b> 0007		7	-1	•	•	48.	$\vdash$	•	2.	9.
Mean				0	1.	9	:	9	9.3	.59
Std Dev				0.74	0.61	2		0.43	76.68	0.105
89A00001		æ	-	•	•	55.	2	•	17.	9
39A00013		∞		0	•	54.	~~	•	24.	9.
89A00053	Σ	∞	Н	8.6	4.8	149.3	115	4.8	133.6	1.51
89A00040		80	⊣	•	•	51.	Ч	•	07.	.5
89A00062		∞	ᆏ	•	•	51.	7	•	4.	9.
89 <b>A</b> 00068		89	Н	•	•	58.	$\circ$	•	2	. 5
Mean				0	6.	7	1 .	4	3.3	. 58
Std Dev				0.52	1.00		2.8	0.30	65.76	0.053
_		თ	۲			53.	⊣	•		9.
		6	7	•	•	53.	7	•	9	9.
89A00055	Σ	6	Н	11.7	4.8	162.7	122	4.7	77.6	1.54
•		6	٦	•	•	52.	$\vdash$	•	4	9.
~~		6	-	٠	•	50.	$\sim$	٠	5.	9.
		9	7	0	•	55.		•	ж Э	6.
Mean				10.20	5.07	154.58	117.8	4.68	71.53	1.682
Std Dev				α	~	7	^	~	0 7	1.4

Appendix G (cont.): SERUM CHEMISTRY

Animal Sex Group Day	Sex	Group	Day	ALT	AST	ALK	НОП	CGT	CK	BILI	СНОГ
T A TIPLE										(	
89400006	Σ	10	7	30.1		43.3	106.8	4.9	175.70	00.0	
000000000000000000000000000000000000000	Σ.	0 -	· C	40.7		237.9	91.7	ж. Ж.	139.45	00.0	170.9
F F O O O K O O	: ≥	9 0	۱ ۸	, o y c		49.8	50.0	3.2	86.19	00.00	154.6
0000000	E (	2 -	1 C	, c	20.1	35.6	44.9	6.5	49.43	00.0	170.5
83400034	4	0 1	1 (	) i		7 00	, , ,	ر ر	324 71	00.0	118.6
89 <b>A</b> 00059	Œ	10	7	72.1	30.0	10.3	r		4		
89A00067	Ŀ	10	7	37.9	22.4	56.3	145.8	∞.	156.04	0.00	
Ž				32.37	31.02	83.53	91.10	3.48	155.25	0.000	172.75
Std Dev				7.17	18.79	77.01	38.28	1.96	95.24	0.000	36.46

				Appendix	<b>ა</b>	(cont.):	SERUM	CHEMISTRY			
Animal Number	Sex	Group	Бау	ALT	AST	ALK	ГРН	GGT	CK	BILI	СНОГ
		,	2	-	0	13.	6		18.6	0	25.
		٠.	7		, m	99	ک	•	17 2	· 0	. 99
			7	4	5.	17.	4.	•	14.0	0.	17.
•		Н	7	œ	7.	71.	08.	•	7.4	0.	33.
89A00038	[E4 [2		2.0	22.9	78.4	131.1	153.3	4.1	99.61	00.00	194.8
_		4	7	•		•	•	•			
Mean Std Dev				57.75	94.88	205.33	99.02	4.35	163.93	0.000	156.75
9 <b>A</b> 0000		7	2		.60	52.	5.	•	2.2	0.	16.
9A0000		7	7	9	77.	36.	6	•	04.4	0	61.
9A0004		2	7	6	33.	85.	2	•	0.3	0.	17.
89A00031	ſΞij	7	7	68.7	81.6	196.1	54.0	0.9	95.63	00.00	164.6
9A0006		7	7	7.	07.	29.	84.	•	9.0	0.	37.
9 <b>4</b> 000 <b>6</b>		7	7	. 9	. 60	. 09	9	•	28.6	0.	37.
Mean					6.3	6.7	7.2	4.2	80.3	00.	9.3
Std Dev				31.39	97.53	33.90	32.45	2.47	186,80	0.000	20.76
89800002		m	7	•	47.	49.	ω.	•	23.3	0.	23.
89A00045		m	7	16.	53.	73.	ж	•	3.9	0.	55.
89A00052	Σ	m	2	277.0	267.0	214.2	48.7	8.9	114.18	00.00	159.2
89A00025		m	7	÷	98.	18.	2.	•	86.1	0.	45.
89A00033		m	7	9	33.	22.	58.	•	6.7	0.	26.
89A00064		m	7	5.	30.	. 09	4		11.1	0.	44.
Mean				141.37	10	189.83	85.22	4	144.28	0.000	142.52
Std Dev				۲.	58.0	47.8	9.5	3.0	46.4	00.	14.6

SERUM

(cont.):

O

168.08 163.98 21.07 186.97 28.71 205.8 217.5 134.9 151.3 172.2 176.7 174.1 170.8 169.4 121.3 171.6 209.8 220.5 147.7 164.6 204.1 175.1 CHOL 0.000 0.000 0.000 00.00 00.00 BILI 149.65 136.60 191.20 126.61 200.35 116.34 319.22 97.14 104.90 96.82 154.87 148.22 86.52 157.10 30.97 181.53 458.46 130.47 91.84 123.46 121.68 184.57 137.29 CK 3.76 2.77 5.423.88 4.3 3.0 2.6 5.0 2.9 2.2 2.0 4.1 5.2 3.2 13.1 4.4 4.1 2.5 4.2 NT GGT 116.88 63.33 102.83 37.76 123.28 96.2 242.8 82.7 79.0 82.7 99.5 329.9 107.8 71.3 76.3 63.1 121.6 145.5 70.8 141.9 TOH 65.80 22.08 62.65 19.13 57.43 14.59 56.9 65.0 80.9 37.4 52.3 52.4 103.1 63.8 37.8 74.3 73.3 51.0 54.0 40.8 94.7 ALK 30.70 26.73 5.14 26.30 4.11 20.1 30.0 26.3 23.6 26.5 31.3 20.6 23.1 28.3 28.3 26.5 35.6 26.3 32.6 42.8 35.4 23.8 30.2 19.4 AST 56.42 53.76 68.57 32.60 151.37 172.61 92.2 48.5 98.2 33.9 35.6 28.7 195.5 478.8 47.5 120.4 37.3 33.4 165.8 34.1 39.1 38.8 27.3 ALT Δау 222222 77777 22222 Group 999999 44444 202020 Sex ΣΣΣωμω ΣΣΣμμμ ΣΣΣμμ 89A00020 89A00039 89A00029 89A00018 89A00048 89A00056 89A00004 89A00011 89A00046 89A00027 89A00065 89A00069 89A00007 89A00050 89A00051 89A00041 89A00071 89**A**00061 Animal Std Dev Std Dev Std Dev Number Mean Mean

				Appendix	ပ	(cont.):	SERUM CH	CHEMISTRY			
Animal Number	Sex	Group	Day	ALT	AST	ALK	ГРН	GGT	CK	ВІГІ	СНОГ
940001	Σ	7	^	α	4	5.3	03.		0.00		1.4
9A0004	Σ		2		. m	01.	91.		73.1	0	31.
9A0005	Σ	7	7	4	· ω	44.	04.		23.2	0	92.
89A00030	[Ł,	7	2	23.9	88.7	156.5	149.0	4.6	171.16	00.00	177.0
9A0003	لتبا	7	7	4.	4.	67.	70.	•	51.1	0.	48.
9 <b>A</b> 0007	ĹĿļ	7	7	ж Э	Ή.	83.	2.	•	3.3	0.	9
Mean				J m.	6.8	7.8	28.4	2.	48.7	00.	43.4
Std Dev				5.41	12.95	73.18	51.22	1.34	54.19	0.000	36.79
89A00001	Σ	œ	7	9	2.	29.	5.	•	33.8	0.	. 69
89A00013	Σ	8	7	2	9	53.	55.	•	12.9	0.	33.
89A00053	Σ	8	2	24.9	9.68	183.5	89.3	4.0	134.12	00.00	176.2
89A00040	[24	æ	7	8	2	86.	9	٠	37.1	0.	12.
89A00062	[±4	8	2	1.	5.	45.	&	•	02.2	0.	12.
89A00068	ഥ	80	7	α	5.	22.	ж Э	•	05.0	0.	ω
Mean				.2	٣.	3.4	4.7	3	0.9	00.	2.3
Std Dev				5.00	2.56	38.97	21.87	1.18	15.92	0.000	34.63
9 <b>A</b> 0000	Σ	თ	7	9.	О	28.	4	•	1.3	0.	4.
9A0004	Σ	6	2	5.	0	97.	8	•	2.0	0.	89.
89A00055	Σ	6	7	19.7	76.1	130.8	81.7	3.7	71.63	00.00	106.5
9 <b>A</b> 0002	Œ	6	7	ж Э	4.	89.	٠ ٥١	٠	0.1	0.	9.
9 <b>A</b> 0003	Ē	თ	7	2	0	18.	36.	٠	54.2	0.	30.
	ī	σ	7	9.	5.	02.	9.	•	7.9	0.	33.
Mean				31.10	82.68	177.58	103.47	4.95	132.89	0.000	119.08
1				7.7		7.		r.	0.07	2	

				Appendix	ix G (c	G (cont.):	SERUM	CHEMISTRY			
Animal Sex Group Day Number	Sex	Group	Бау	TRIG	URIC	T.P.	ALB	A-G	GLU	BUN	CR
89A00006	Σ	10	2	61	0.2	5.6	3,3	1.4	109.1	20.7	0.7
89A00044	Σ	10	7	19	0.3	5.8	2.8	6.0	75.7	25.8	9.0
89A00057	Σ	10	2	37	0.2	5.6	3.8	2.1	110.2	20.7	9.0
89A00034	Œ	10	7	46	0.0	6.2		1.4	113.1	20.5	0.7
89A00059	ſΉ	10	7	31	0.2	0.9	3 2	1.2	82.6	19.8	0.7
89 <b>A</b> 00067	Œ	10	2	63	0.1	6.1		1.2	94.7	21.0	0.7
Mean				52.8	0.17	5.87	3.32		97.57	21.42	0.67
Std Dev				18.0	0.10	0.25	0.33	0.41	15.78	2.18	0.05

				Appendix	G (cont.)	t.):	SERUM CI	CHEMISTRY			
Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
100040	Σ	,-	c						~	α	
100000	Ξ ;	-1 <i>,</i>	4 (		•	٠	•	٠	· ,		•
9 <b>A</b> 0004	Σ	<b>-</b>	7		•	٠	•	•	۶ ۲.	_;	•
9A0005	Σ	~	7		•	٠	•	٠	17.	7.	•
9A0002	щ	7	2		•	•	•	•	2.	~	•
9A0003	ĹŦ	7	2	32	0.2	5.8	2.5	0.7	97.9	14.9	0.7
89 <b>A</b> 00072	[£4	-	2	31	•	•		•	9	7 .	•
Mean				2	1.	10.	8	ω.	8.1	8	7.
Std Dev				12.6	0.12	0.63	0.33	0.16	10.77	5.11	0.13
9 <b>A</b> 0000	Σ	7	5	46	•	•	•	•	· 	9.	•
940000	Σ	2	7		•	•	•	•	85.	ω.	٠
89A00047	Σ	5	2		0.2	6.9	3.2	6.0	97.8	17.9	0.7
9 <b>A</b> 0003	Ē	7	2		•	•	•	•	7	ω	•
9A0006	Ĺ	2	2		•	•	•	•	4.	5.	•
9 <b>A</b> 000 <b>6</b>	ĹΉ	2	7		•	•	•	•	ω	0	•
Mean				-	7	0.	6.	0.	4.8	9.	9.
Std Dev				22.4	0.05	1.17	0.21	0.32	10.52	3.11	0.08
980000	Σ	(r)	2						2	9	•
89A00045	Σ	m	7	74	0.3	7.3	2.9	9.0	87	17.9	0.5
9A0005	Σ	3	2		٠	•	•	•	05.	9	•
9A0002	Ŀı	Μ	7		•	٠	•	•	1.	4.	•
9 <b>A</b> 0003	[14	æ	2		•	٠	٠	•	7.	7	•
9 <b>A</b> 0006	Ŀı	М	7		•	•	•	•	9	9	
Mean				55.7	0.18	6.05	2.77	0.92	96.63	16.90	0.65
Std Dev				∞	•	7.	<del>-</del> .	·.	⊃.	٥.	<b>-</b> .

SERUM

(cont.):

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0.68 0.72 0.70 0.7 0.8 0.5 0.7 0.8 0.7 0.7 0.7 0.5 0.8 0.6 0.7 0.7 0.8 0.7 CR18.12 5.05 18.65 5.37 17.80 16.7 13.0 14.6 18.0 19.0 17.1 21.1 17.7 12.0 17.8 21.1 19.0 26.1 16.2 12.2 14.7 23.7 BUN 98.07 95.75 11.42 96.77 87.4 93.5 104.7 98.0 103.8 88.5 82.3 97.6 88.0 99.7 87.0 99.2 96.9 06.2 GLU 1.28 1.22  $1.37 \\ 0.25$ 1.3 1.3 1.1 1.5 1.5 1.4 1.0 1.3 1.3 1.7 1.6 1.3 1.3 A-G 3.30 3.38 .28 3.3 3.2 3.6 3.5 3.5 8.5 33.1 3.00 3.00 3.00 3.00 4.00 3.00 ALB m 0 5.94 5.99 5.94 5.8 6.9 6.0 5.7 5.5 5.4 6.1 6.2 6.5 5.7 6.0  $\omega$   $\omega$   $\omega$   $\omega$   $\omega$  $_{
m TP}$ 4 9 9 9 9 9 0.18 0.18 0.18 URIC 0.2 0.3 0.3 0.1 0.02 0.1 0.3 0.3 0.1 0.3 67.8 9 5 TRIG 60.5 16. 57.3 16.0 69 87 58 53 79 84 49 99 47 71 45 44 83 55 44 61 Δау 000000 000000 22222 Group 2222 99999 444444 Sex ΣΣΣωωω ΣΣΣωμω ΣΣΣμμμ 89A00039 89A00071 89A00048 89A00056 89A00020 89A00046 89A00065 89A00069 89A00050 89A00029 89A00018 89A00027 89A00004 89A00011 89A00007 89A00051 89A00041 89A00061 Animal Number Std Dev Std Dev Std Dev Mean Mean Mean

				Appendix	Ŋ	(cont.):	SERUM (	CHEMISTRY			
Animal Number	Sex	Group	Бау	TRIG	URIC	TP	ALB	A-G	CLU	BUN	CR
9 <b>A</b> 0001	Σ	,	~	4 4					19.	C	
9A0004	Σ	7	5	4.2	•				11.	دی	
9A0005	Σ	7	5	98	•	•	•	•	7.	· ω	•
89A00030	Œ	7	5	35	0.1	5.4	2.6	6.0	93.1	17.2	0.7
9 <b>A</b> 0003	Ŀ	7	7	33	•	•	•	•	4.	2.	•
9 <b>A</b> 0007	Ĺ	7	7	25	•	•	•	•	00	ω	•
Mean					. 2	0.	6.	0.	1.	0.	9.
Std Dev				10.7	0.14	1.23	0.19	0.41	9.18	3.75	0.15
89A00001		ω	2	86		•	•	•	02.	9.	•
89A00013		80	7	42	•	•	•	•	$^{\infty}$	3	•
89A00053		8	2	51	٠	•	•	•	01.	2.	•
89A00040	Ĺ	∞	7	36	0.0	4.5	2.4	1.1	98.2	15.2	9.0
89A00062		∞	7	18	٠	•	•	•	94.	9	•
89A00068		8	7	27	•	•	•	•	0	5.	•
Mean				5	-:	5.	9.	0.	9.	7	9.
Std Dev				28.2	0.10	1.19	0.19	0.39	4.66	3.56	0.10
9 <b>A</b> 0000	Σ	9	7	50	•	•		•	02.	0	•
89A00049	Σ	6	7	33	0.2	6.5	2.6	0.7	101.6	14.0	0.5
9A0005	Σ	0	7	26	•	•	•	•	04.	5.	•
9 <b>A</b> 0002	ī	σ	7	21	•	٠	٠	•	00.	0	٠
9A0003	Ŀı	6	2	19	•	٠	•	•	03.	ش	•
9 <b>A</b> 0006	Ĺτι	6	2	38	•	•	•	•	05.	9.	•
Mean				31.2	0.10	5.92	2.50	0.80	103.00	15.53	0.65
Std Dev				11.7	τ.	. 2	.3	. 2	6.	9.	

				Appendix	ပ	pendix G (cont.):	SERUM	CHEMISTRY		
Animal Sex Group Day Number	Sex	Group	Day	CAL	PHOS	NA	CL	×	IRON	MAG
89800006	Σ	10	7	10.6	9.9	155.9	113	4.3	302.7	1.74
89A00044	Σ	10	5	10.9	6.3	150.9	114	4.9	100.2	1.75
89A00057	Σ	10	7	10.7	5.4	151.0	117	4.9	101.1	1.72
89800034		10	7	10.7	5.3	156.4	119	4.2	94.5	1.91
89A00059	[E4	10	2	10.2	4.5	155.1	116	5.0	86.3	1.73
89A00067		10	7	11.1	5.7	154.8	116	4.6	126.8	1.73
Mean				10.70	5.63	154.02	115.8	4.65	135.27	1.763
Std Dev				0.30	0.75		2.1	0.34	83.14	0.073

				Appendix	ဗ	(cont.):	SERUM	CHEMISTRY			
Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	ズ	IRON	MAG	
940001	Σ	-	0			50.	_		35	7.	
9A0004	Σ		ı ~			51.	· ~	•	. 7	9.	
9A0005	Σ	· ~	5			53.	2	•	55.	5	
9 <b>A</b> 0002	Ĺτί	1	7			50.	_	•	0	4.	
89A00038	ſz.	~	7	8.6	4.2	151.9	115	4.3	32.5	1.48	
9 <b>A</b> 0007	Œ	1	2		•	50.	$\vdash$	•	7.	.5	
Mean				0.	0.	1.3	•	.5	35.8	. 54	
Std Dev				0.79	0.83	1.28	3.8	0.21	127.05	0.063	
9 <b>A</b> 0000	Σ	2	7	•	•	51.	$\leftarrow$	•	04.	. 5	
9A0000	Σ	2	2		•	51.	7	٠	6.	9.	
89A00047	Σ	5	2	10.2	4.2	150.9	119	4.7	75.1	1.46	
9A0003	Ŀ	7	2	•	٠	51.	7	•	6	.5	
9 <b>A</b> 0006	Ŀ	2	2	•	•	53.	7	•	0	.5	
9 <b>A</b> 0006	Ĺ	7	2	•	•	51.	₹	•	2.	4.	
Mean				9.	6.	1 80	.	9.	7.9	.51	
Std Dev				0.55	0.57		2.8	0.28	41.88	0.052	
980000	Σ	m	2		•	53.	7		40.	9	
89A00045	Σ	m	5	9.0	4.5	150.1	119	4.3	130.6	1.59	
9 <b>A</b> 0005	Σ	m	2	•	•	50.	7	•	70.	4.	
9A0002	Ĺ	Υ	7	•	•	50.	7	٠	0	. 5	
9 <b>A</b> 0003	ĹĿ	m	7	٠	•	52.	_	•	86.	ω.	
9 <b>A</b> 0006	Ĺ	m	7	•	•	52.	⊣	•	Ξ.	7.	
Mean				9.67	5.12	151.52	117.0	4.55	109.92	1.637	
Std Dev				. 5	ω.	1.2	•	. 7	28.1	. 12	
											1

Animal Number	Sex	Group	Day	CAL	PHOS	N A	CL	쪼	IRON	MAG
9 <b>A</b> 0001	Σ	4	2			54.		•	80.	9
9A0004	Σ	4	2		•	50.	<del>- 1</del>	•	92.	0.
9A0005	Σ	4	2	7	•	62.	2		39.	9
89A00020	Ĺų	4	2	10.5	5.0	149.9	115	4.6	212.8	1.66
9A0003	Ĺ	4	2	Ξ.	•	52.	<del>,  </del>	•	01.	ω.
9 <b>A</b> 0007	Ŀı	4	7	1.	•	52.	$\vdash$	•	74.	۲.
Mean				6.	6.	4	1 .	7	0.2	76
Std Dev				0.46	0.68		4.2	0.20	46.79	0.140
9 <b>A</b> 0000	Σ	5	2		•	52.	$\leftarrow$	•	67.	9.
9A0001	Σ	2	2	•	•	54.	$\vdash$	•	5.	Ġ,
89A00046	Σ	5	2	10.7	3.8	151.4	115	4.7	33.2	1.68
89A00027	Ē	2	7	•	•	52.	Ţ	٠	50.	.5
9 <b>A</b> 0006	ĹĿij	5	7	•	•	55.	$\vdash$	•	5.	5.
9 <b>4</b> 000 <b>6</b>	Ĺτί	2	2	•	•	53.	<del>,  </del>	•	26.	9 .
Mean				4	.2	.2	1 .	7.	6.5	. 59
Std Dev				69.0	1.36	-		0.21	96.75	0.050
89 <b>A</b> 00007	Σ	9	5		•	53.	<del>- 1</del>		55.	9
9A0005	Σ	9	2	11.1	5.8	155.3	117	5.4	200.4	1.86
89A00051	Σ	9	7	•	٠	59.	7	•	85.	٠.
9A0002	Ŀı	9	7		•	52.	~	•	.99	9.
9A0004	Ĺı	9	7	•	•	50.	٦	•	39.	ω.
9 <b>4</b> 0006	Ē	9	2	•	•	54.	<del></del> 1	•	71.	١.
Mean				9.	-:	-:		8.	9.6	69.
Std Dev				0.56	0.45	n		0.33	39.12	0.146

				Appendix	ပ	(cont.):	SERUM	CHEMISTRY			
Animal Number	Sex	Group	Day	CAL	PHOS	AN	CL	×	IRON	MAG	
89A00019		7	2	9.6		54.	7		· 8	9	
89A00043		7	7	10.6	•	59.	$\sim$	•	$_{\infty}$	.5	
89A00054		7	7	11.5		58.	$\sim$	٠	35.	4.	
89 <b>A</b> 00030		7	2	10.0	•	51.	$\vdash$	•	7.	. 5	
89 <b>A</b> 00035	ĹĻ	7	7	10.4	5.4	153.5	117	4.7	77.77	1.93	
89 <b>A</b> 00070		7	7	10.0	•	51.	7		0	9.	
Mean				\m.	0.	7.	1 .	7	7.9	.63	
Std Dev				0.66	0.49		3.1	0.44	37.85	0.160	
89A00001		∞	2	•	•	50.		•	5.	∞.	
89A00013		8	7	•		52.	$\sim$	•	65.	.5	
89A00053	Σ	∞	7	10.3	5.5	151.6	117	5.0	132.9	1.43	
89A00040		œ	7		٠	49.	Ţ	•	9	9.	
89 <b>A</b> 00062		ω	7	9.5	٠	50.	Н	•	7.	٠.	
89 <b>A</b> 00068		æ	2	•	•	52.	_	•	α	· 5	
Mean				7.	-	س	1 .	5.	4	.59	
Std Dev				0.52	96.0			0.32	69.14	0.135	
89A00005		σ	7	•	•	52.	⊣	•	$\infty$	9.	
89A00049		6	2	•	•	49.		•	ж	3.	
89A00055	Σ	6	7	10.4	5.4	154.1	120	4.3	74.7	1.48	
89A00026		6	7	•	•	51.	2	•	9	4.	
89A00037		6	7	•	٠	52.	Ц	•	0	.5	
89A00060		σ	2	•	•	. 09	2	•	2.	۲.	
Mean				9.92	5.10	153.52	118.7	4.72	78.57	1.550	
Std Dev				4.	٠.4	۲.	•	. 2	1.2	.09	

CHEMISTRY
SERUM
(cont.)
G
Appendix

Animal Sex Group Day Number	Sex	Group	Day	ALT	AST	ALK	ГОН	GGT	CK	BILI	СНОГ
89A00006	Σ	10	ю	29.4	26.4	31.7	162.1	3.0	166.46	00.00	198.8
89A00044	Σ	10	m	40.0	79.1	254.8	134.5	0.7	127.64	00.0	178.6
89A00057	Σ	10	ന	•	19.3	52.3	39.1	5.3	84.52	00.00	152.1
89A00034	ĹŁĄ	10	m	26.1	24.1	38.1	59.2	7.1	89.36	00.00	161.1
89A00059	Ē	10	ന	29.5	30.8	73.4	112.8	2.4	147.85	00.0	113.0
89 <b>A</b> 00067	Ĺų	10	3		31.1	59.4	315.2	3.3	249.86	00.0	207.8
Mean				32.47	35.13	84.95	137.15	3.63	144.28	0.000	168.57
Std Dev				5.05	21.99	84.54	09.86	2.26	60.85	000.0	34.55

				Appendix	ဗ	(cont.):	SERUM CH	CHEMISTRY			
Animal Number	Sex	Group	Бау	AI.T	AST	ALK	ГРН	199	CK	ВІГІ	СНОГ
980001	Σ	7	m	΄.	9	41.	9		6.4	0	32.
9A0004	Σ		, m			10.			05.0	0	51.
9A0005	Σ	<del></del>	m	7	6	29.	بــ		71.7	0.	93.
89A00022	ĹŁ	1	٣	25.6	77.0	180.0	185.1	1.9	148.34	00.00	127.5
9A0003	Œ	П	m	6	4	47.	٦,	•	92.7	0.	69.
9 <b>A</b> 0007	Ĺτί	1	$\sim$	ж Э	0.	15.	48.	•	50.4	0.	99.
Mean				3.9	8.8	20.7	04.8	-:	42.4	00.	45.7
Std Dev				34.42	18.88	55.81	55.70	1.34	40.06	0.000	33.17
9 <b>A</b> 0000	Σ	7	m	7	18.	67.		•	3.9	0.	26.
940000	Σ	2	m	0	84.	59.	44.	•	3.5	0.	52.
89A00047	Σ	7	m	77.8	259.9	184.5	62.5	2.8	255.38	00.0	113.6
9 <b>A</b> 0003	Ĺτή	2	٣	9	67.	11.	9.	•	76.4	0.	60.
9A0006	Ţ	2	٣	4	9.	38.	9	•	6.4	0.	30.
9 <b>A</b> 0006	ſъ	2	m	9	ω	72.	4.	•	0.7	0.	32.
Mean				7.	1.4	8.9	8.1	9.	7.7	10.	36.0
Std Dev				32.56	69.94	30.40	84	1.64	71.87	0.000	17.34
9 <b>A</b> 0000	Σ	m	m	~ ~	31.	51.	15.	•	53.4	0.	23.
89A00045	Σ	٣	8	0	125.4	185.5	104.5	4.2	90.63	00.00	154.1
9 <b>A</b> 0005	Σ	e	3	6	64.	28.	26.	•	82.0	0.	58.
9A0002	Ĺ	c	٣	38.	6	25.	7.	•	9.0	0.	48.
9A0003	Įτί	3	33	<u>~</u>	9	14.	5.	•	8.9	0.	.90
9 <b>A</b> 0006	Ĺų	m	m	0	35.	67.	۲.	•	32.2	0.	42.
Mean				6.5	0.5	5.6	;		1 .	0.000	138.78
Std Dev				65.83	24.15	45.42	59.18	2.36	42.7	0.	19.9
			İ								

				Appendix	ix G	(cont.):	SERUM	CHEMISTRY			
Animal Number	Sex	Group	Day	ALT	AST	ALK	ТРН	GGT	CK	BILI	СНОГ
9 <b>A</b> 0001	Σ	4	m	28.	0	9.	.99	•	2.2	0.	27.
89 <b>A</b> 00048	Σ	<b>ጥ</b> ና	m n	123.8	25.2	99.0	136.6	4. v	165.93	0.00	133 4
940000	ĒĿ	r 0	n (r	⊣α	7 ~	, ,		•	. 4 	. 0	55. 66.
9 <b>A</b> 0003	י נבי	4	n			. 4			88.1	. 0.	83.
9 <b>A</b> 0007	្រា	₹	m	9	2.	5.	4	•	2.6	0.	29.
Mean Std Dev				47.55	25.87	66.62	109.98	4.30	136.02	0.000	175.42
9 <b>A</b> 0000	Σ	Ŋ	ĸ	4.	0	3	0		07.3	0.	02.
9A0001	Σ	ഹ	٣	2.		5.	9	•	25.6	0.	87.
9 <b>A</b> 0004	Σ	5	ĸ	4.	ж Э	7.	9.	•	24.4	0.	74.
9 <b>A</b> 0002	Г	5	3	0.	4.	8	91.	•	17.7	0.	. 69
89 <b>A</b> 00065 89 <b>A</b> 00069	EL EL	വ	ന ന	31.9 78.0	37.8	93.3 60.4	158.9 161.4	2.1	334.62 170.11	00.00	118.9 170.4
Mean Std Dev				55.13	26.38	61.60	114.58	2.53	163.32	0.000	170.43
00000	Σ	ď	۲۰	٧	<u>Γ</u>	^	75		18.4	0	28
9 <b>A</b> 000	Σ	9	n m	73.		4.	 		9.8	0.	20.
9 <b>A</b> 000	Σ	9	m i		9.	0	03.	•	09.3	0.	46.
89A00029	נו ויון	(O) (d)	יי) ריי	322.0	33.4	45.9	63.7	2. r	88.35	00.00	161.8
9 <b>A</b> 000	י (בי	9	nm						3.1		73.
Mean Std Dev				189.00	30.25	56.15	120.42	4.77	162.84 88.93	0.000	186.33

				Appendix	<sub>U</sub>	(cont.):	SERUM C	CHEMISTRY			
Animal Number	Sex	Group	Бау	ALT	AST	, ALK	трн	GGT	CK	BILI	СНОГ
100040	Σ	7	٣.	~	,	ლ ა	S.		03.3	0.	11.
4000A9	Σ	, ,	) m	, ~			25.	•	04.5	0.	10.
9 <b>A</b> 0005	Σ:	, ,	m		. 9	. 5			6.4	0.	71.
9 <b>A</b> 0003	<u>.</u>	7	, m		82.	72.	53.	•	56.5	0.	2.
89 <b>A</b> 00035	<u> </u>	7	e	24.1	80.5	176.1	129.6	5.4	327.15	00.00	126.4
9 <b>A</b> 0007	Ŀ	7	3	4.	8	. 66	19.	•	9.1	0.	∞
0 0 <b>X</b>				7	5	24.9	7.4	9	41.2	00.	1.6
Std Dev				4.25	10.61	80.91	41.36	2.28	97.84	000.0	37.29
		α	۳	4	~	85.	4		1.6	0.	. 89
89400013		οα	) (*	. 7		73.	4	•	99.9	0.	26.
89400053		α	) M	· ~	0	94.	7	•	20.9	0.	48.
89 <b>A</b> 00040	[FI	ထ	m	19.1	95.2	187.0	79.6	5.3	274.73	00.0	106.9
89A00062		∞	Μ	0	4.	54.	65.	•	94.4	0.	01.
89A00068		8	m	5.	5.	33.	0	•	7.3	0.	ထ
M Crean				4	3.9	21.1	C.2	2	4.	10	
Std Dev					1.83	51.58	35.51	1.33	66.4	00.	30.3
000040	Σ	σ	~	^	٠	43.	7		30.3	Ξ.	7.
9A0004	: Σ	n 0	m		6	98.	9	•	8.1	0.	82.
9 <b>A</b> 0005	Σ	, o	m	7	74.	29.	4.	•	0.5	0.	95.
9A0002	Ŀ	6	m	0	2	03.	27.	٠	44.6	0.	19.
89A00037	Ŀı	o	m .	24.6	75.9	135.3	112.2		120.86	00.00	120.4
9 <b>A</b> 0006	ניי	6	m	20		96.	. 82	•	Γα. Ο	?	· ` `
Mean Std Dev				30.67	92.50	184.53	77.60	5.70	103.77	0.000	110.02
- 1											

				Appendix G		(cont.):	SERUM	CHEMISTRY			1
Animal Sex Group Day Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	CLU	BJN	CR
89A00006	Σ	10	m	49	0.2	5.7	3.1	1.2	91.4	16.3	0.7
89A00044	Σ	10	m	74	0.3	5.5	2.7	6.0	86.3	24.3	0.5
89A00057		10	٣	42	0.2	5.6	3.4	1.6	97.0	16.5	0.7
89A00034	ĹΉ	10	e	45	0.0	5.8	3.2	1.2	109.5	14.5	0.8
89A00059		10	٣	24	0.2	5.7	3.0	1.1	83.9	15.8	0.7
89A00067		10	Э	102	0.2	5.9	3.1	1.2	87.8	19.3	0.8
Mean				56.0	0.18		3.08	1.19	92.65	17.78	0.70
Std Dev				27.7	0.10	0.13	0.23		9.43	3.56	0.11

				Appendix	ტ	(cont.):	SERUM C	CHEMISTRY			
Animal Number	Sex	Group	Бау	"R1G	URIC	ТР	ALB	A-G	GLU	BUN	CR
4	2	٠	r	S					ك ا	-	
SACOL	Σ:	٠,	<b>n</b> (	00	•		٠	٠	· 、	· → (	•
9 <b>A</b> 0004	Σ	_	m	2./	٠	•	•	٠	96.	7	٠
9A0005	Σ	<b>~</b>	m	45	•	•		•	т	~;	•
9A0002	ĹĿ	7	Υ	44	•	•	•	•	01.	ω.	•
89A00038	Ţ	-	٣	41	0.0	5.4	2.7	1.0	91.1	10.8	0.8
9 <b>A</b> 0007	Ŀ	FH	m	09	•	•	•	•	5.	2.	•
Mean				.	-	1 80	8	0.	4.1	0.7	1
Std Dev				7.6	0.15	0.91	0.15	0.31	7.78	4.93	0.08
940000	Σ	2		8					4	C	
940000	Σ	1 ~	) (*	7.4	•				06		
9400049	Σ :	1 ~	) (*	<b>.</b> 6	•	•			. 20	c	•
940003	Ĺ.	1 ~	) (*	76	•			•	ک ا		
9 <b>4</b> 0006	. [1	2 <	ന	39				0.5	85.	4.	
89A00066	ĹŁ,	5	m	62	0.3	7.2	2.7	•	٦	25.3	0.8
Mean				9	-	0	1	6	3.1	.2	9
Std Dev				16.7	0.10	1.31	0.12	0.45	13.52	3.87	0.08
	Σ	۳,	٨						^	7	
940004	ΞΣ	) (*	) (r				• •		. 0		
89A00052	Σ	n	n m	35	0.3	8.4	3.0	9.0	96.1	15.4	0.7
9A0002	Ŀı	m	٣		•	•	•	•	ж	о	•
9A0003	تعبا	m	٣		•	•	•	•	93.	9	•
9 <b>A</b> 0006	Ĺ	т	3		.•	•	•	•	0	J	•
Mean				44.3	0.13	6.30	2.70	0.87	99.17	16.75	0.68
Std Dev				0	<b>⊢</b>	9.	. 2	٣.	0.0	9.	0.

SERUM

(cont.):

G

0.70 0.73 0.72 0.7 0.6 0.7 0.6 0.8 0.8 0.6 0.7 0.8 0.7 0.7 0.7 0.7 0.8 CR 17.30 2.09 22.83 6.61 17.90 2.85 16.6 18.9 18.6 19.7 14.4 15.0 18.2 22.6 19.7 31.3 16.1 21.9 19.1 18.1 13.5 BUN 92.75 7.08 91.17 8.24 95.85 6.30 100.6 92.8 82.0 100.9 86.2 84.5 91.8 102.7 87.9 100.3 87.8 95.3 98.7 89.4 102.5 87.5 GTO 1.34 50 1.48 A-G 1.4 1.1 1.6 1.8 1.1 1.5 1.0 1.4 1.2  $\frac{1.25}{0.19}$ 1.8 1.6 1.2 1.2 1.5 3.35 3.42 ALB 2.0.0 2.0.0 2.0.0 2.0.0 3.00 33.0 3.0 3.0 4.0 5.80 6.07 5.81 5.9 5.9 5.9 5.9 6.8 5.9 6.1 6.1 5.6 5.2 6.1 6.0 6.0 5.7 5.8 ТР 0.17 0.22 0.17 URIC 0.0 0.3 0.1 0.0 0.1 0.5 0.0 0.3 0.3 0.1 61.2 64.8 18.3 83.8 TRIG 111 73 54 48 76 76 51 52 88 64 61 91 51 89 44 85 85 62 Day m m m m mm m m m m mm m m m mGroup 99999 202020 **444**444 Sex ΣΣΣωωω ΣΣΣωωω ΣΣΣμμμ 89A00018 89A00048 89**A**00020 39**A**00039 89A00056 39A00071 89A00004 89A00011 89A00046 89A00027 89A00065 89A00069 89A00007 89A00050 89A00051 89A00029 89A0C041 89A00061 Mean Std Dev Animal Number Std Dev Std Dev Mean Mean

		!		Appendix	ပ ၅	ont.):	SERUM	CHEMISTRY			,
Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	CLU	BUN	CR
980001	Σ	7	~						21	C	
89A00043	Ξ.	۲.	ന	) ~ ~	 	6.9	) <b>₹</b>	0.5	100.4	21.0	. o . s
9 <b>A</b> 0005	Σ.	7	m		•		•	•	94.	9	
9A0003	[24	۲-	κ,		•	•			0	0.	
9 <b>A</b> 0003	ĹŁı	7	٣		•	•	•	•	.90	5.	
3 <b>A</b> 0007	Ĺų	7	$^{\circ}$		•	•		•	£.	9.	•
Mean				1 .	-	9.	8.	12.	2.9	1.	9.
td				3.1	0.14	96.0	0.33	0.63	13.41	4.15	0.16
9 <b>A</b> 0000	Σ	ထ	m		-	•	•	•	0	ω.	
9 <b>A</b> 0001	Σ	æ	m	38			•	•	9.	4.	
9 <b>A</b> 0005	Σ	∞	m		٠	•	•	•	3.	۲,	
89A00040	لعا	æ	3	<b>~</b> ♥	0.0	4.1	2.3	1.3	95.3	14.3	9.0
9 <b>A</b> 0006	بعز	æ	m	2.0	٠	٠	•		4	$_{\infty}^{\cdot}$	•
9 <b>A</b> 0006	Ĺ	ထ	m		•	•	•	•	4	9	•
Mean				-7	7	7.	9	0.		.2	0.68
Std Dev				11.1	0.11	1.33	0.43	0.63	5.5	4	
9 <b>A</b> 0000	Σ	თ	m	37	•	•	•		9	0	•
9 <b>A</b> 0004	Σ	6	3	27	•	•	٠	•	9	ω,	•
9 <b>A</b> 0005	Σ	9	$\infty$	25	•	•	•	•	91.	7.	•
9 <b>A</b> 0002	Ŀı	6	m	20	•	•	•	•	10.	ж •	•
89A00037	[14	σ	m	24	0.0	6.4	2.6	1.1	103.3	15.0	9.0
9 <b>A</b> 0006	[±i	σ	m	43	•	•	•	٠	. 60		
Mean Std Dev				29.3	0.10	5.87	2.47	0.85	101.23	16.80	0.67

				Appendix G (cont.):	<u>ئ</u> ق	ont.):	SERUM	CHEMISTRY		
Animal Sex Group Day Number	Sex	Group	Day	CAL	PHOS	NA	CI	Ж	IRON	MAG
89A00006	Σ	10	r	9.3	4.8	153.8	117	4.9	147.1	1.65
89A00044	Σ	10	m	10.5	5.9	147.0	113	4.4	71.8	1.65
89A00057	Σ	10	m		5.2	151.2	116	4.9	118.9	1.71
89A00034	[z.	10	m		4.3	154.8	116	•	91.6	1.94
89400059	ĹŁ,	10	m	10.7	5.0	152.4	114	4.5	82.2	1.50
89A00067	Ĺ	10	m	10.6	4.3	153.5	112	5.0	118.2	1.78
M G				10 35	4.92	152.12	114.7	4.78	104.97	1.705
Std Dev				0.52	09.0	2.79	2.0	0.26	28.08	0.148

						.				
Animal Number	Sex	Group	Бау	CAL	PHOS	AN	CL	不	IRON	MAG
9 <b>A</b> 0001	Σ	IJ	m			55.			ω	80
940004	Σ	-	· m			51.	$\leftarrow$	•	.99	5
9 <b>A</b> 0005	Σ		m		•	51.	2	•	71.	.5
9A0002	ĹŦı		m		•	47.	$\leftarrow$	•	1	7.
89A00038	ĹŦ	7	m	6.6	4.4	153.5	116	4.9	45.7	1.66
9 <b>A</b> 0007	ĹŁı	1	Ж		•	49.	٦	•	0	7.
Mean				0.	.2	5.	•	7	6.5	.67
Std Dev				0.53	0.94			0.29	41.03	0.114
9 <b>A</b> 0000	Σ	5	m		•	54.	7		m	9.
9 <b>A</b> 0000	Σ	2	33		•	49.	~	•	2	9.
89A00047	Σ	2	m	10.5	5.1	151.1	116	4.5	70.2	1.36
9A0003	ы	7	κ		٠	53.	1	•	9	6.
9 <b>A</b> 00086	(II)	7	m			53.	٦	•	2	٠4
9 <b>4</b> 0006	[z.	7	m		•	51.	$\vdash$	•	0	9.
Mean				8.		.		7.	7.4	9
Std Dev				0.61	1.08			0.39	36.29	0.194
9 <b>A</b> 0000	Σ	m	m			52.	7	•	1.	. 5
9A0004	Σ	٣	3		•	51.	$\leftarrow$	•	9	.5
89A00052	Σ	Υ	m	8.6	4.2	152.3	117	4.8	86.8	1.52
9 <b>A</b> 0002	ī	m	m		•	52.	$\vdash$	•	2	9.
9A0003	Ŀ	Μ	സ		•	50.	⊣	•	76.	9.
9 <b>A</b> 0006	ſω	m	ന		•	50.	7	•	9	9.
Mean				9.60	5.35	151.47	115.8	4.75	90.05	1.613
מרת הפי				r.		:	. 1	:	;	2

Appendix G (cont.):

SERUM

(cont.):

G

1.722 0.223  $1.805 \\ 0.186$ 1.747 1.63 1.40 1.78 2.03 1.88 1.58 1.71 1.74 1.84 1.86 1.81 1.69 1.69 2.17 2.17 1.78 MAG 148.83 54.18 23.98 199.13 64.20 195.7 157.6 123.8 140.8 157.9 196.4 118.3 165.9 192.5 108.9 207.8 267.7 239.1 239.5 110.5 IRON 4.87 4.77 .31 4.7 4.7 5.0 4.8 5.1 4.9 4.3 5.2 4.5 4.7 4.9 5.0 4.8 4.7 5.0 5.0 5.0 4.0  $\mathbf{x}$ 114.5 2.6 115.0 ъ. 1114 1116 1119 1113 1113 116 113 118 118 1116 1111 114 116 1114 1110 1117 114 2 CL52.28 54.13 .53.00 2.11 2.18 151.0 154.8 155.6 151.9 150.6 156.5 157.2 152.4 152.1 153.6 157.2 152.9 150.8 149.5 151.2 5.15 5.28 5.38 PHOS 6.1 5.9 3.8 5.9 5.0 4.8 5.1 5.7 5.0 5.6 5.6 4.6 5.4 4.7 6.0 6.0 Appendix 10.65 10.48 10.65 9.2 10.9 10.9 10.5 10.5 10.1 11.1 10.6 10.3 11.0 10.4 10.7 10.3 10.9 10.5 CAL Day m m m m m mm m m m mm m m m mGroup 444444 22222 99999 Sex ΣΣΣωωω ΣΣΣμμμ ΣΣΣμμμ 89**A**000020 89**A**00039 89A00018 89A00048 89A00056 89A00034 89A00046 89A00027 89A00065 89A00069 89A00007 89A00050 89A00051 89A00029 P 3A00041 89A00011 89A00061 89A00071 Animal Std Dev Number Std Dev Std Dev Mean

				Appendix	<b>ა</b>	(cont.):	SERUM	CAEMISTRY		
Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	×	IRON	MAG
89A00019	Σ	7	m	•		55.	$\leftarrow$		9.	9.
89A00043	Σ	7	m	•	•	51.	$\overline{}$	•	0	4.
89A00054	Σ	7	æ	10.3	4.8	148.8	116	4.9	90.3	1.40
89A00030	Ĺ	7	m	•	•	56.	2	•	9	9.
89A00035	Ĺι	7	m	•	٠	50.	<del></del> 4	•	4.	6.
89A00070	Ĺ	7	m	•	•	49.	$\leftarrow$	•	9.	$\infty$
Mean				8	-:	7		7.	1.5	.(7)
Std Dev				0.47	0.91			0.29	30.24	0.220
89A00001	Σ	α	m		•	53.	$\sim$		Ś	, ,
89A00013	Σ	- σο	m	•	•	52.	-	•	77.	. 5
89A00053	Σ	8	٣	9.2	5.8	146.6	115	4.8	75.7	1.73
89A00040	ĹŦŦ	∞	Μ	•	•	47.	⊣	•	6	. '
89A00062	Ĺų	æ	m	•	•	51.	⊣	•	2.	₹.
89A00068	ш	8	က		•	52.	_	•	7.	
Mean				·	4.	.5	1 .	9.	6.3	. 54
Std Dev				0.47	0.84	2.89		0.33	28.02	0.113
89A00005		σ	٣		•	52.	~	•	ω.	٠.
89A00049		6	m	•	•	45.	٦	•	ω	٣.
89A00055	Σ	σ	m	9.7	5.7	130.0	115	3.9	87.0	1.48
89A00026		σ	m	•	٠	54.	٦	•	2.	١.
89A00037		σ	m	10.0	٠	53.	7	٠	ნ	9.
89 <b>A</b> 00060		σ	m	•	•	51.	$\vdash$	•	4	. 5
Mean				9.63	5.37	147.95	117.0	4.58	67.83	1.557
Std Dev				٠.	9.	9.3	•	4.	4.9	.13

178.45 195.1 188.4 171.0 176.2 130.0 210.0 CHOL 0.000 00.00 BILI 198.10 139.51 162.95 162.95 123.18 98.12 163.83 CK CHEMISTRY 3.65 2.9 1.1 4.7 6.4 2.9 3.9 GGT 133.33 81.9 132.3 112.5 96.7 115.6 261.0 SERUM LDH 60.42 25.72 37.2 100.4 46.1 40.2 63.4 55.2 (cont.): ALK 26.48 5.43 24.9 30.7 20.1 20.4 30.7 32.1 AST Ċ Appendix 30.58 33.0 34.1 39.2 23.9 26.2 27.1 ALT Day  $\iota$ Group 10 10 10 10 10 Sex  $\Sigma \Sigma \Sigma$  Fr Fr Fr 89A00006 89A00044 89A00057 89A00034 89A00059 Animal Number Mean Std Dev

				Appendix	ပ	(cont.):	SERUM CI	CHEMISTRY			
Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	СНОГ
101	Σ	-	7	α	٠,	95.	α		1		0
89A00042	Σ:	۱	, ,	22.6	98.4	273.2	108.0	5.0	172.46	00.00	22
005	Σ	, <b>, -</b> 1	7	, ,	5.	87.	ω	•	7.1	0.	. 2
302	ĹΉ	٦	7	0	5.	52.	14.	•	56.0	0.	16.
303	Ĺŧı	_	7	9.	ij	45.	9	•	2.7	0.	31.
700	F	7	7	0	8	87.	Э.	•	05.9	0.	76.
Mean				7.3	0.2	0.2	3.3	.2	5.9	00.	13.6
Std Dev				22.02	12.46	45.58	37.55	1.16	49.02	0.000	28.03
9 <b>A</b> 00000	Σ	2	7	4		54.	7.	•	3.6	0.	7
89A00009	Σ	7	7	36.4	80	148.2	76.4	1.6	66.47	00.00	112.1
9A0004	Σ	2	7	0	<del>,</del>	56.	2.	•	6.2	0.	90.
9 <b>A</b> 0003	נבי	2	7	5.	63.	58.	22.	•	68.4	0.	50.
9 <b>A</b> 0006	[±4	2	7	ω	8	11.	62.	•	84.9	0.	5.
9 <b>A</b> 0006	ſΞι	2	7	2.	9.	48.	0	•	3.7	0.	02.
Mean				4.5	9.1	3.0	31.9	= :	58.9	00.	7.8
Std Dev				28.96	15.29	24.12	125.00	2.63	134.64	0.000	25.28
89 <b>A</b> 00002		æ	7	2.	9	82.	8		1.2	0.	0
89A00045		e	7	0	3	40.	4.	•	3.0	0.	8
89A00052		ന	7	$_{\infty}^{\circ}$	00.	75.	4.	•	5.8	0.	96.
89A00025	[T.	m	7	25.2	86.7	109.6	99.1	5.4	114.08	0.12	124.4
89A00033		m	7	5.	27.	13.	5.	•	15.8	0.	
89A00064		m	7	4	24.	51.	ж Э	•	42.1	0.	7.
Mean					4.8	162.13	0	7.20		02	
Std Dev					17.16	36.0	4.	0.	25.5	0.	22.1

SERUM CHEMISTRY

Appendix G (cont.):

	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	СНОГ
9 <b>A</b> 0001	Σ	4	7	ω	2.	9.	88.		20.1	٥.	01.
89A00048	Σ	4	7	7	30.3	81.7	272.5	4.6	203.72	00.00	195.7
9A1)005	Σ	4	7	9	ج	4.	0	•	11.2	0.	54.
9 <b>A</b> 0002	Ĺ	4	7	8	2	S	52.	•	93.7	0.	62.
9A0003	Ŀı	4	7	9.	9	7.	50.		56.9	0.	82.
89 <b>A</b> 00071	Ĺ	4	7	25.6	9.	0	4	•	32.0	0.	24.
Mean				5.9	٣.	1.2	1.4	0	9.6	00.	0.1
Std Dev				15.70	6.59	13.62	81.63	1.35	88.70	000.0	28.84
9 <b>A</b> 0000	Σ	2	7	9	2.	4.	9	•	9.90	0.	05.
9A0001	Σ	2	7	2.	4.	?	55.	•	56.5	0.	79.
89A00046	Σ	5	7	135.3	35.5	40.0	276.3	3.5	257.98	00.00	164.7
9A0002	Ŀ	2	7	о О	9	5.	02.	٠	32.0	0.	85.
9 <b>A</b> 0006	بعا	2	7	5.	2	4.	63.	•	59.5	0.	34.
9 <b>4</b> 0006	Ĺ	2	7	ж	9	2.	7.	•	33.5	0.	55.
Mean				2.0	9.9	6.5	6.9	2	1.0	00.	0.8
Std Dev				41.59	17.70	42.82	82.66	1.79	67.52	0.000	24.70
9 <b>A</b> 000	Σ	9	7	5.	4	2.	16.	•	13.0	. 2	18.
89A00050	Σ	9	7	105.2	28.8	46.9	247.9	6.4	231.07	00.00	217.7
9 <b>A</b> 000	Σ	9	7	9.	4.	0	51.	•	78.8	0.	67.
9 <b>A</b> 000	Ŀ	9	7	58.	5.	ω	64.	•	08.5	0.	98.
9 <b>A</b> 000	ഥ	9	7	4.	4.	ω	35.	•	89.9	0.	95.
9 <b>A</b> 000	[z.,	9	7	ω.	4.	2.	01.	•	36.2	0.	91.
Mean				112.85	32.15	53.20	152.85	5.75	242.94	0.048	197.93
Std Dev				0.0	3.8	۲.	4.5	4.	12.0	. 11	ω ω

			}	Appendix	ပ	(cont.):	SERUM CI	CHEMISTRY			
Animal Number	Sex	Group	Day	ALT	AST	ALK	Грн	CGT	CK	BILI	СНОГ
940001	Σ	7	7	α	4	01	y		0.5.0		σ
9A0004	Σ	,	7			40.	44	•	49.2	· 0	. 4
9A0005	Σ	7	7		9	71.	84.	•	49.2	0.	47.
9A0003	ĹĿ	7	7	9.	8	36.	0	•	22.7	0.	7.
89A00035	Ŀı	7	7	22.2	78.0	147.4	139.8	5.0	148.91	00.00	98.3
9 <b>A</b> 0007	Ŀ	7	7	2.	5.	57.	7.	•	00.3	0.	. 9
Mean				4	~!	4.1	3.9	9.	9.2	00.	5.7
Std Dev				4.79	9.71	58.96	40.27	1.74	23.03	0.000	29.63
9 <b>A</b> 0000	Σ	ω	7		01.	06.	ω.		54.4	0.	5.
9A0001	Σ	σ	7	•	10.	01.	7.	•	15.0	0.	85.
89A00053	Σ	80	7	23.9	92.1	162.0	101.8	5.6	113.92	00.0	117.9
9 <b>A</b> 0004	Ĺų	00	7	•	02.	53.	4.	•	34.7	0.	4
9 <b>A</b> 0006	لعبا	Φ	7	•	97.	32.	8		77.0	0.	. 7
9 <b>4</b> 0006	(Fi	80	7	•	2.	91.	ج	•	26.3	٥.	ω
Меап				6.	٣.	4.6	8.5	2	3.6	00.	2.2
Std Dev				$\sim$	6.84	79.49	83.71	1.80	60.88	0.000	19.20
980000	Σ	σ	7	ω	1.	61.	0		5.2	0.	80
89A00049	Σ	9	7	83.2	154.0	155.3	83.7	10.4	143.98	00.00	57.3
9A0005	Σ	6	7	9	83.	05.	8	٠	5.1	0.	4.
9 <b>A</b> 0002	Œ	6	7	4.	ج	52.	28.	•	64.0	0.	3
9 <b>A</b> 0003	נבו	6	7	2.	ж :	10.	ij.	٠	6.1	0.	T
9 <b>A</b> 0006	ഥ	<b>o</b>	7	2.	· 0	38.	<del>.</del>	•	3.6	0.	5.
Mean				0.0	9.	1	7	6.13	86.39	0.008	83.35
Std Dev				26.22	32.17	24.0	6.	ω.	0.1	.02	5.4

Appendix G (cont.): SERUM CHEMISTRY

Animal Sex Group Day TRI Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89A00006	Σ	10	7	51	0.3	5.6		1.4	95.2	17.2	0.7
89A00044	Σ	10	7	91	1.8	6.2	3.1	1.0	73.1	24.9	0.8
89A00057	Σ	10	7	38	1.7	0.9		1.5	86.1	16.9	9.0
89A00034		10	7	65	0.2	5.7		1.3	0.86	16.7	0.8
89A00059	ĹĿ	10	7	49	0.0	0.9		1.5	88.1	21.0	د.و
89A00067		10	7	53	0.1	6.1		1.3	83.0	17.0	0.8
Mean				57.8	0.68	5.95	3.38	1.33	87.25	18.95	0.72
Std Dev				18.4	0.83	0.24	0.21	0.18	8.93	3.34	0.10

Mumber         ALB         A-G         GLU         BUN         CR           ByA000162         M. 1         7         27         0.2         4.5         2.4         1.1         97.2         18.6         0.8           ByA00042         M. 1         7         27         0.2         4.5         2.4         1.1         97.2         18.6         0.8           ByA00058         M. 1         7         46         1.5         7.3         3.1         0.6         10.6         17.9         0.8           ByA00058         M. 1         7         46         1.5         7.9         2.2         0.6         10.6         19.5         0.8           ByA00072         F. 1         7         43         0.0         7.0         2.2         0.6         10.5         11.9         0.9           ByA00073         F. 1         7         45         0.7         1.29         0.6         10.5         0.8         0.6         0.8         0.9         0.8         0.9         0.8         0.9         0.8         0.9         0.8         0.9         0.9         0.9         0.9         0.9         0.9         0.9         0.9         0.9         0.9 <th></th> <th></th> <th></th> <th></th> <th>Appendix</th> <th>ဗ</th> <th>(cont.):</th> <th>SERUM CH</th> <th>CHEMISTRY</th> <th></th> <th></th> <th></th>					Appendix	ဗ	(cont.):	SERUM CH	CHEMISTRY			
0042 M 1 7 27 0 0 2 4.5 2.4 1.1 97.2 18.6 0.8 0042 M 1 7 38 1.5 7.3 3.1 0.7 106.1 17.9 0.7 0058 M 1 7 47 0.0 4.9 2.5 0.6 96.2 19.7 0.8 0072 F 1 7 47 0.0 4.9 2.4 1.0 106.1 17.9 0.8 0072 F 1 7 27 0.1 4.8 2.2 0.8 101.5 12.5 0.8 0009 M 2 7 21 0.79 1.29 0.31 0.21 5.98 3.39 0.0 0009 M 2 7 21 0.79 1.29 0.31 0.21 5.98 3.39 0.0 0009 M 2 7 27 21 0.79 1.29 0.31 0.21 5.98 3.39 0.0 0009 M 2 7 31 1.7 7 7 3 3.4 0.0 0.8 90.8 15.8 0.0 0009 M 2 7 45 0.2 4.9 2.4 1.0 8 90.8 15.8 0.0 0009 M 2 7 31 1.7 7 7.3 3.1 0.8 90.8 15.8 0.0 0009 M 2 7 31 1.7 7 7.8 2.9 1.3 113.6 17.2 0.6 0009 M 2 7 37 31 1.7 7 7.8 3.0 0.6 101.2 17.7 0.6 0005 F 2 7 37 40 0.0 7.6 2.7 0.6 92.1 17.6 0.7 0006 F 2 7 47 0.1 7.8 3.0 0.6 101.2 21.7 0.0 0007 M 3 7 27 0.6 1.51 0.28 0.3 11.18 2.58 0.0 0007 M 3 7 27 0.2 4.5 2.4 1.1 102.6 17.3 0.6 0007 M 3 7 28 0.2 4.5 2.4 1.1 102.6 14.9 0.9 0008 M 3 7 28 0.2 4.5 2.4 1.1 10.8 1.26 3.1 10.9 0.8 0008 M 3 7 28 0.0 4.8 2.4 1.1 105.2 14.9 0.9 0009 M 3 7 28 0.0 63 6.28 2.42 0.72 103.42 16.78 0.1 0009 M 3 7 2.1 0.0 0.0 1.86 0.32 0.29 11.98 11.98 0.1	Animal Number	Sex	Group	Da	₩	URIC	TP	ALB	A-G	GLU	BUN	CR
0042 M 1 7 38 1.5 7.3 3.1 0.7 106.1 17.9 0.7 0058 M 1 7 46 17.0 6.9 2.5 0.6 96.2 14.6 0.8 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 <b>A</b> 0001	Σ	-	7						7	ω	
0058 M 1 7 46 1.7 6.9 2.5 0.6 96.2 14.6 0.8 0022 F 1 7 47 0.0 0.0 0.0 4.9 2.4 0.8 0.8 101.5 12.5 0.8 0.7 0.1 4.8 2.2 0.8 101.5 12.5 0.9 0.7 0.1 4.8 2.2 0.8 101.5 12.5 0.8 0.9 0.7 0.9 0.7 0.1 4.8 2.2 0.8 0.8 0.8 101.5 21.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0	9A0004	Σ		7		•	•		•	06.	7	•
0072 F 1 7 47 0.0 4.9 2.4 1.0 108.6 19.3 0.7 0.7 0.7 0.1 4.8 2.2 0.8 101.5 12.5 0.8 0.8 0.7 0.7 0.7 0.0 2.5 0.8 101.5 12.5 0.8 0.8 0.0 0.7 0.0 0.0 0.0 0.2 0.6 110.5 12.5 0.8 0.8 0.0 0.0 0.0 0.0 0.2 0.6 0.0 0.0 0.2 0.2 0.8 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.0 0.0 0.0	9A0005	Σ		7		•	•	•	•	96.	4.	•
0038 F 1 7 27 0.1 4.8 2.2 0.8 101.5 12.5 0.8 0072 F 1 7 43 0.0 7.0 2.6 0.6 110.5 21.9 0.9 0.9 0072 F 1 1 7 43 0.0 0.58 5.90 2.53 0.80 103.35 17.47 0.7 9.1 0.79 1.29 0.31 0.21 5.98 3.39 0.0 00093 M 2 7 21 0.79 1.29 0.31 0.21 5.98 3.39 0.0 00031 F 2 7 31 1.7 7.3 3.1 0.8 90.8 15.8 0.7 0.6 0003 F 2 7 37 0.0 0.0 5.2 2.9 1.3 116.9 15.4 0.6 00031 F 2 7 37 0.0 0.0 5.2 2.9 1.3 113.6 17.2 0.6 0.7 0.6 0.0 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	9A0002	[4,	<b>,</b> →	7		•	•	•		08.	о О	•
Dev 38.0 0 58 5.90 2.53 0.80 103.35 17.47 0.9 0.003 M 2 7 21 0.79 1.29 0.31 0.21 5.98 3.39 0.0 0.003 M 2 7 21 0.79 1.29 0.31 0.21 5.98 3.39 0.0 0.003 M 2 7 45 0.2 4.9 2.4 1.0 95.3 116.9 2.0 0.0 0.0031 F 2 7 37 0.0 0.0 5.2 2.9 1.3 116.9 95.8 15.8 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9A0003	ī	-	7		•	•	•	•	01.	2.	•
Dev 9.1 0.58 5.90 2.53 0.80 103.35 17.47 0.7 0.0003 M 2 7 21 0.79 1.29 0.31 0.21 5.98 3.39 0.0 0.0009 M 2 7 45 0.2 1.29 0.31 0.21 5.98 3.39 0.0 0.0009 M 2 7 45 0.2 1.29 1.3 116.9 15.8 0.6 0.0003 F 2 7 37 0.0 5.2 2.9 1.3 113.6 17.2 0.6 0.0 0.0 0.6 F 2 7 40 0.0 7.6 2.7 0.6 92.1 17.6 0.7 0.6 0.0 0.6 17.2 0.7 0.0 0.6 0.0 0.6 17.2 0.7 0.0 0.6 0.0 0.6 0.1 0.2 0.6 0.0 0.6 0.1 0.2 0.0 0.6 0.0 0.6 0.3 11.18 2.58 0.0 0.0 0.0 0.0 0.0 0.0 0.3 11.18 2.58 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	9A0007	(II.	7	7			•			10.	7	•
Dev Signary	Mean				8	.5	6	.5	α	03.3	7.4	7.
0009 M 2 7 21 0.3 4.5 2.5 1.3 116.9 15.4 0.6 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	$\alpha$				9.	٦.	. 2	. 3	. 2	5.9	3.3	•
0009 M 2 7 45 0.2 4.9 2.4 1.0 95.3 20.7 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 <b>A</b> 0000	Σ	7	7	21	•	•		•	16.	5.	•
0047 M 2 7 31 1.7 7.3 3.1 0.8 90.8 15.8 0.7 0.6 0.31 F 2 7 37 0.0 0.0 5.2 2.9 1.3 113.6 17.2 0.6 0.6 0.7 0.6 0.7 0.6 92.1 17.6 0.7 0.6 0.7 0.6 92.1 17.6 0.7 0.7 0.6 0.7 0.6 92.1 17.6 0.7 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.3 11.18 2.58 0.0 0.0 0.0 0.0 0.3 11.18 2.58 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	9 <b>A</b> 0000	Σ	2	7	45		•	•	•	95.	0	•
0063 F 2 7 37 0.0 5.2 2.9 1.3 113.6 17.2 0.6 0.0 0.0 0.6 0.7 0.6 92.1 17.6 0.7 0.0 0.0 0.7 0.6 92.1 17.6 0.7 0.7 0.0 0.7 0.6 92.1 17.6 0.7 0.7 0.0 0.7 0.6 101.2 21.7 0.7 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.0	9A0004	Σ	7	7	31	•	•	•	•	0	5.	•
0063         F         2         7         40         0.0         7.6         2.7         0.6         92.1         17.6         0.7           0066         F         2         7         47         0.0         7.6         2.7         0.6         101.2         21.7         0.7           006         F         3         0.38         6.22         2.77         0.93         101.65         18.07         0.6           0002         M         3         7         27         0.66         1.51         0.28         0.33         11.18         2.58         0.0           0045         M         3         7         27         0.6         2.5         0.5         95.0         18.4         0.7           0052         M         3         7         36         1.5         8.4         2.9         0.5         95.0         18.4         0.9           0025         F         3         7         28         0.0         4.8         2.4         1.0         126.3         14.9         0.9           0033         F         3         7         28         0.2         4.5         1.9         0.4         10.5	9A0003	Ĺ	2	7	37	•	•	•	٠	13.	7.	•
0066         F         2         7         47         0.1         7.8         3.0         0.6         101.2         21.7         0.7           Bev         36.8         0.38         6.22         2.77         0.93         101.65         18.07         0.6           0002         M         3         7         27         0.6         1.51         0.28         0.33         11.18         2.58         0.0           0045         M         3         7         27         0.6         2.5         0.5         95.0         18.4         0.0           0052         M         3         7         36         1.5         8.4         2.9         0.5         95.0         18.4         0.7           0025         F         3         7         28         0.0         4.8         2.4         1.0         126.3         19.3         0.6           0033         F         3         7         28         0.2         4.5         1.9         0.8         96.2         14.9         0.9           0064         F         3         7         57         0.1         7.9         2.4         0.7         10.5         96.2	9A0006	Ŀı	7	7	40	•	•	•	•	2.	7.	•
Dev       36.8       0.38       6.22       2.77       0.93       101.65       18.07       0.6         0002       M       3       7       27       0.6       1.51       0.28       0.33       11.18       2.58       0.0         0005       M       3       7       27       0.2       4.5       2.4       1.1       102.6       17.3       0.6         005       M       3       7       36       1.5       8.4       2.9       0.5       95.0       18.4       0.7         0025       F       3       7       33       0.0       4.8       2.4       1.0       126.3       19.3       0.6         0033       F       3       7       28       0.2       4.5       1.9       0.8       96.2       14.9       0.9         0064       F       3       7       57       0.1       7.9       2.4       0.7       105.2       14.8       0.7         Dev       12.1       0.80       1.86       0.32       0.72       103.42       1.86       0.1	9 <b>A</b> 000 <b>6</b>	[د.	7	7	47	•	•	•	•	01.	1.	
Dev       9.6       0.66       1.51       0.28       0.33       11.18       2.58       0.0         0002       M       3       7       27       0.2       4.5       2.4       1.1       102.6       17.3       0.6         0045       M       3       7       49       1.8       7.6       2.5       0.5       95.0       18.4       0.7         0052       M       3       7       36       1.5       8.4       2.9       0.5       95.0       18.4       0.7         0025       F       3       7       28       0.0       4.8       2.4       1.0       126.3       19.3       0.6         0033       F       3       7       28       0.2       4.5       1.9       0.8       96.2       14.9       0.9         0064       F       3       7       57       0.1       7.9       2.4       0.7       10.3       0.7         0ev       38.3       0.63       6.28       2.42       0.72       103.42       0.7         0ev       12.1       0.80       1.86       0.32       0.72       11.98       0.11	Mean				6	3	.2	7.	6.	01.6	8.0	1 .
0002     M     3     7     27     0.2     4.5     2.4     1.1     102.6     17.3     0.6       0045     M     3     7     49     1.8     7.6     2.5     0.5     95.0     18.4     0.7       0052     M     3     7     36     1.5     8.4     2.9     0.5     95.2     16.0     0.8       0025     F     3     7     28     0.0     4.8     2.4     1.0     126.3     19.3     0.6       0064     F     3     7     57     0.1     7.9     2.4     0.4     105.2     14.8     0.7       Dev     12.1     0.80     1.86     0.32     0.72     103.42     16.78     0.7       Dev     12.1     0.80     1.86     0.32     0.29     11.98     1.86     0.1	De				•	9.	. 5	. 2	۴.	1.1	2.5	0.
0045 M 3 7 49 1.8 7.6 2.5 0.5 95.0 18.4 0.7 0052 M 3 7 36 1.5 8.4 2.9 0.5 95.2 16.0 0.8 0025 F 3 7 28 0.0 4.8 2.4 1.0 126.3 19.3 0.6 0.9 0.8 96.2 14.9 0.9 0.9 0.64 F 3 7 57 0.1 7.9 2.4 0.4 105.2 14.8 0.7 0.7 0.63 6.28 2.42 0.72 103.42 16.78 0.7 0.1 0.80 1.86 0.32 0.29 11.98 1.86 0.1	9 <b>A</b> 0000	Σ	m	7		•	•	•	•	02.	7.	•
0052 M 3 7 36 1.5 8.4 2.9 0.5 95.2 16.0 0.8 0025 F 3 7 33 0.0 4.8 2.4 1.0 126.3 19.3 0.6 0.8 0.3 F 3 7 28 0.2 4.5 1.9 0.8 96.2 14.9 0.9 0.9 0.64 F 3 7 57 0.1 7.9 2.4 0.4 105.2 14.8 0.7 0.7 0.7 0.4 105.2 14.8 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	9 <b>A</b> 0004	Σ	e	7		•	•	•	•	5.	8	•
0025 F 3 7 33 0.0 4.8 2.4 1.0 126.3 19.3 0.6 0033 F 3 7 28 0.2 4.5 1.9 0.8 96.2 14.9 0.9 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	9A0005	Σ	m	7		٠	•	•	•	95.	9	•
0033 F 3 7 28 0.2 4.5 1.9 0.8 96.2 14.9 0.9 0.064 F 3 7 57 3.1 7.9 2.4 0.4 105.2 14.8 0.7	9 <b>A</b> 0002	Ĺι	m	7		٠	•	•	•	26.	ი	•
0064 F 3 7 57 3.1 7.9 2.4 0.4 105.2 14.8 0.7 38.3 0.63 6.28 2.42 0.72 103.42 16.78 0.7 Dev	9A0003	Ŀı	m	7		•	•	٠	•	9	4.	٠
38.3 0.63 6.28 2.42 0.72 103.42 16.78 0.7 12.1 0.80 1.86 0.32 0.29 11.98 1.86 0.1	9 <b>A</b> 0006	Ĺτι	m	7		•	•	•	•	05.	4.	•
td Dev 12.1 0.80 1.86 0.32 0.29 11.98 1.86 0.1	Mean				8.	9.	.2	4.	7	03.4	6.7	١ .
	Std Dev				2.	ω.	$\infty$	Э	. 7	1.9	1.8	۲.

CHEMISTRY

SERUM

(cont.):

G

Appendix

0.73 0.72  $0.73 \\ 0.12$ 0.7 0.8 0.7 0.6 0.6 0.7 0.8 0.8 0.5 0.8 0.5 0.8 0.8 0.7 0.8 CR18.18 7.34 21.13 17.53 15.4 18.1 17.0 17.3 35.1 23.9 15.0 13.1 32.7 15.8 14.1 18.4 16.4 15.7 14.8 15.7 17.8 24.8 87.83 94.90 92.43 107.8 96.2 86.0 94.1 84.1 95.6 76.9 90.7 100.2 88.4 83.2 88.9 78.5 94.5 87.4 03.8 GLU 1.37  $1.27 \\ 0.21$ 1.450.30A--G 1.5 1.3 1.4 1.2 1.5 1.2 1.3 1.3 1.5 .33 .42 3.55 3.2 3.3.3 2.9 3.8 3.6 3.7 ALB m 0 5.89 6.12 5.99 6.1 5.6 6.8 5.8 5.3 5.8 6.7 6.2 5.8 5.2 6.3 6.3 6.5 6.2 6.2 0.47 0.68 0.73 URIC 0.2 1.8 1.9 0.0 0.2 0.2 0.2 0.0 0.3 0.4 1.6 1.7 0.1 0.2 54.7 62.3 18.1 70.3 TRIG 42 68 51 57 47 66 45 51 77 89 46 49 48 89 94 64 Day rr $\Gamma$ Group 202020 99999 444444 Sex ΣΣΣμμω ΣΣΣμμμ ΣΣΣμμμ 89A00056 89A00046 89A00029 89A00018 89A00048 89A00020 89A00039 89A00004 89A00011 89A00027 89A00065 89A00069 89A00007 89A00050 89A00051 89A00041 89A00071 89A00061 Animal Std Dev Std Dev Std Dev Number Mean Mean Mean

Animal Sex Group Day TRIG URIC TP  Number  39A00019 M 7 7 81 0.3 4.5 89A00054 M 7 7 46 1.8 7.7 89A00030 F 7 7 46 0.1 4.5 89A00035 F 7 7 24 0.1 4.5 89A00035 F 7 7 26 0.2 4.0 89A00013 M 8 7 26 0.2 4.4 89A00051 M 8 7 20 0.2 4.4 89A00052 F 8 7 27 7.3 89A00052 F 8 7 27 7.3 89A00056 F 8 7 27 7.5 89A00056 F 8 7 27 7.5 89A00056 F 8 7 27 7.5 89A00056 F 8 7 27 0.63 1.94 89A00055 F 9 7 43 0.2 4.1 89A00056 F 9 7 28 1.6 7.0 89A00055 F 9 7 28 1.5 89A00055 F 9 7 28 1.5 89A00055 F 9 7 28 1.5 89A00055 F 9 7 28 1.5 89A00057 F 9 7 28 1.5 89A00057 F 9 7 28 1.95 89A00057 F 9 7 20 0.058 6.04			Appendix	ဗ	(cont.):	SERUM CH	CHEMISTRY			
M	Sex			URIC	TP	ALB	A-G	CLU	BUN	CR
M 7 7 7 31 0.3 4.5  M 7 7 7 46 1.8  M 7 7 7 48 1.5  F 7 7 7 24 0.1  S 6.7  S 7 8 0.70  F 7 7 26  S 7 8 7 20  S 7 8 7 20  S 8 7 20  S 8 7 20  S 8 7 20  S 8 7 20  S 8 7 20  S 8 7 20  S 8 8 7 20  S 8 8 7 20  S 8 8 7 20  S 8 8 7 20  S 8 8 7 20  S 8 8 7 20  S 8 8 7 20  S 8 8 7 20  S 8 8 7 20  S 8 8 7 20  S 8 8 7 20  S 8 8 7 20  S 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8										
M       7       7       46       1.8       7.7         F       7       7       48       1.5       6.7         F       7       7       24       0.1       4.5         F       7       7       24       0.1       4.5         F       7       7       26       0.2       4.0         10.3       0.70       0.7       4.3       6.9         10.3       0.7       0.7       4.3       6.9         10.3       0.7       0.7       4.3       6.9         10.3       0.7       0.7       1.5       4.3         10.3       0.0       0.2       4.3       4.3         10.4       0.0       0.0       7.9       4.3         10.4       0.0       0.0       7.9       7.9         10.4       0.0       0.0       7.9       7.9         10.5       0.0       0.0       7.9       7.9         10.9       0.7       0.0       7.9       7.9         10.9       0.0       0.0       7.9       7.9         10.0       0.0       0.0       7.9       7.9         10.0	Σ	7		•	٠	٠		4	ب	•
F 7 7 48 1.5 6.7  F 7 7 24 0.1  F 7 7 40  F 7 7 40  F 7 7 40  S 6.9  F 7 7 7 40  S 6.9  S M 8 7 26  S M 9 7 27  S 8 7 35  S M 9 7 43  S M 9 7 28  S M 9 2 28  S M	Σ	7		•		•	•	ω	6	٠
F 7 7 24 0.1 4.5  F 7 7 40 0.2 4.0  F 7 7 26 0.3 6.9  S M 8 7 20 0.75 1.5  F 8 7 27 0.2 4.3  F 8 7 28.5 0.0 7.5  F 8 7 43 0.2 7.9  M 9 7 43 0.2 4.1  S M 9 7 28 1.6 7.0  F 9 7 29 0.0 7.9	Σ	7		•	•	2.5	9.0	8.68	19.8	0.7
F 7 7 40 0.2 4.0 35.8 0.70 5.7 35.8 0.70 5.7 10.3 0.75 1.57 8 M 8 7 20 0.2 4.4 8 7 20 0.2 4.3 9 7 29 0.0 7.5 8 H 9 7 43 0.2 4.1 1.9 1.6 7.0 8 F 9 7 28 1.5 1.9 1.6 7.0 8 F 9 7 28 1.5 1.9 1.6 7.0 1.0 0.0 4.3 1.9 1.6 7.0 1.0 0.0 4.3 1.9 1.6 7.0 1.1 1.0 0.0 7.9	٠ ١	7		•	•		•	02.	0	•
F       7       26       0.3       6.9         35.8       0.70       5.7         10.3       0.75       1.5         10.3       0.02       4.4         10.3       0.02       4.3         10.2       4.3       0.2       4.3         10.0       1.9       1.6       7.0         10.0       1.6       7.0       4.3         10.0       1.6       7.0       4.3         10.0       0.0       1.5       8.4         10       0.0       1.5       8.4         10       0.0       1.5       8.4         10       0.0       1.5       8.4         10       0.0       1.5       8.4         10       0.0       1.5       8.4         10       0.0       1.5       8.4         10       0.0       1.5       8.4         10       0.0       1.5       8.4         10       0.0       1.9       1.9         10       0.0       1.5       8.4         10       0.0       1.5       4.5         11.1       0.75       1.9         11	, <u>[</u> 1.	7		•	•	•	•	0	ω	•
35.8       0.70       5.7         0001       M       8       7       34       0.2       4.4         0013       M       8       7       20       0.2       4.3         0053       M       8       7       20       0.2       4.3         0062       F       8       7       27       0.2       4.3         0068       F       8       7       29       0.0       7.5         0068       F       8       7       19       0.2       7.9         0049       M       9       7       43       0.2       4.1         0055       M       9       7       28       1.5       9.4         0055       M       9       7       28       1.5       9.2       4.5         0005       F       9       7       28       1.5       9.2       4.5         0060       F       9       7       29       0.0       7.9       4.5         000       F       9       7       29       0.0       7.9       1.9         000       F       9       7       29       0.0       7.9	, Li,	7		•	•	•	•	01.	5.	•
Dev 0001 M 8 7 34 0.2 4.4 0013 M 8 7 20 0.2 4.3 0053 M 8 7 27 0.2 4.3 0062 F 8 7 27 0.2 3.5 0068 F 8 7 19 0.2 7.9 0075 M 9 7 43 0.2 4.1 0075 M 9 7 28 1.6 7.0 0055 M 9 7 28 1.6 7.0 0056 F 9 7 28 1.5 8.4 0056 F 9 7 28 1.5 8.4 0057 F 9 7 28 1.5 8.4 0058 F 9 7 28 1.5 8.4 0056 F 9 7 28 1.5 8.4			ی	1	1	15	9	(m)	9.	7.
00001 M 8 7 20 0.2 4.4 000053 M 8 7 20 0.2 4.3 00053 M 8 7 20 0.2 4.3 00062 F 8 7 27 0.0 7.5 00068 F 8 7 19 0.2 7.9 00005 M 9 7 43 0.2 4.1 00005 M 9 7 28 1.5 8.4 00026 F 9 7 28 1.5 8.4 00005 F 9 7 28 1.5 8.4 00005 F 9 7 28 1.5 8.4	>		. 0	. 7	.5	0.14	0.45	9.34	2.82	0.16
00001 M 8 7 20 0.2 4.4 00013 M 8 7 20 0.2 4.3 00053 M 8 7 20 0.2 4.3 00062 F 8 7 27 0.0 7.5 00068 F 8 7 19 0.2 7.9 00005 M 9 7 43 0.2 4.1 00005 M 9 7 28 1.6 7.0 00037 F 9 7 28 1.5 8.4 000060 F 9 7 28 1.5 8.4 00060 F 9 7 20 0.0 7.9								(	(	
00013 M 8 7 20 0.2 4.3 00053 M 8 7 36 1.7 7.3 00062 F 8 7 27 0.0 00068 F 8 7 19 0.2 7.9 00068 F 8 7 19 0.2 7.9 00005 M 9 7 43 0.2 4.1 00055 M 9 7 28 1.6 7.0 00037 F 9 7 28 1.5 8.4 00056 F 9 7 28 1.5 8.4 00056 F 9 7 28 1.5 8.4	Σ	7	34	•	•	•	•	· .	· .	•
00053 M 8 7 36 1.7 7.3 00040 F 8 7 27 0.2 00062 F 8 7 35 0.0 00068 F 8 7 19 0.2 7.9 00068 F 8 7 19 0.2 7.9 00005 M 9 7 43 0.2 4.1 00005 M 9 7 28 1.6 7.0 00037 F 9 7 28 1.5 8.4 000060 F 9 7 20 0.0 4.3 00060 F 9 7 20 0.0 7.9	Σ	7	70	•	٠	•	•	0.60	;	•
DOUGE F 8 7 27 0.2 3.5  DOUGE F 8 7 35 0.0  DOUGE F 8 7 19 0.2  DOUGE F 8 7 19 0.2 7.9  DOUGE M 9 7 43 0.2 4.1  DOUGE F 9 7 19 1.6 7.0  DOUGE F 9 7 28 1.5 8.4  DOUGE F 9 7 10 0.0 4.3  DOUGE F 9 7 10 0.0 7.9	Σ	7	36	•	٠	•	•	ش	0	•
Dev 28.5 0.0 7.5 7.9 0.0068 F 8 7 19 0.2 7.9 7.9 0.0068 F 8 7 19 0.2 7.9 7.9 0.0005 M 9 7 43 0.2 4.1 0.005 M 9 7 28 1.6 7.0 0.005 M 9 7 28 1.5 8.4 0.005 F 9 7 10 0.0 4.3 0.005 F 9 7 28 1.5 8.4 0.00 0.0 7.9 7.9 0.00 0.0 7.9 0.00 0.00	[I.	7	2.7	•	٠	•	•	83.	2	٠
Dev 28.5 0.42 5.8 7.7 0.63 1.9 0.0005 M 9 7 43 0.2 4.1 0.0055 M 9 7 28 1.5 8.4 0.0056 F 9 7 10 0.0 4.3 0.0060 F 9 7 29 0.0 7.9 7.9 0.0060 F 9 7 29 0.0 7.9 7.9 0.0060 F 9 7 29 0.0 7.9 7.9 0.0060 F 9 7 20 0.0 7.9 0.0 7.9 0.00 7.9	ī	7	35	•	•	2.3	0.4	102.2	20.8	0.7
Dev 00005 M 9 7 43 0.2 4.1 00049 M 9 7 28 1.6 7.0 00026 F 9 7 10 0.0 4.3 00037 F 9 7 30 0.2 4.5 00060 F 9 7 29 0.0 7.9 00060 F 11.1 0.75 1.9	Ĺų	7	19	•	•	•	•	13.	5.	•
Dev 00005 M 9 7 43 0.2 4.1 00049 M 9 7 19 1.6 7.0 00055 M 9 7 28 1.5 8.4 00026 F 9 7 10 0.0 00037 F 9 7 30 0.2 4.5 00060 F 9 7 29 0.0			$\int \infty$	4	ω.	4.	0.	6.4	16.85	0.68
0005 M 9 7 43 0.2 4.1 0049 M 9 7 19 1.6 7.0 0055 M 9 7 28 1.5 8.4 0026 F 9 7 10 0.0 4.3 0037 F 9 7 30 0.2 4.5 0060 F 9 7 29 0.0	>		7.	9.	6.	0.26	0.45	19.30	۲.	٦.
0049 M 9 7 19 1.6 7.0 0055 M 9 7 28 1.5 8.4 0026 F 9 7 10 0.0 4.3 0037 F 9 7 30 0.2 4.5 0060 F 9 7 29 0.0 7.9	<u> </u>	۲	٨3						4.	7.0
0055 M 9 7 28 1.5 8.4 0026 F 9 7 10 0.0 4.3 0037 F 9 7 30 0.2 4.5 0060 F 9 7 29 0.0 7.9	ΣΣ	, ,	19				•	98.	•	•
0026 F 9 7 10 0.0 4.3 0037 F 9 7 30 0.2 4.5 0060 F 9 7 29 0.0 7.9 26.5 0.58 6.0	ΞΣ	,	28			2.6	0.4	90.5	14.9	0.7
0037 F 9 7 30 0.2 4.5 0060 F 9 7 29 0.0 7.9 26.5 0.58 6.0		7	10	•	•	•	•	7.	•	•
0060 F 9 7 29 0.0 7.9 26.5 0.58 6.0 11.1 0.75 1.9	ı Er	7	30	•	•	•	•	8	•	•
26.5 0.58 6.0 11.1 0.75 1.9	Н	7	29	•	•	•	•	08.	<del>.</del>	•
Dev 11.1 0.75 1.9			9	5	10	٣.	8.	100.78	16.92	0.68
	>			. 7	6.	0.21	0.42	6.	$\infty$ .	0.

				Appendix G (cont.):	) (C	ont.):	SERUM	CHEMISTRY		
Animal Sex Group Day Number	Sex	Group	Day	CAL	PHOS	NA	CL	ж	IRON	MAG
89800006	Σ	10	7	10.3	5.6	153.3	117	4.4	235.2	1.53
89A00044	Σ	10	١	12.3	9.5	155.6	120	5.2	115.9	2.08
89A00057	Σ	10	7	•	7.3	153.2	120	4.8	107.8	1.83
89A00034	<u> </u>	0 †	l.		4.5	156.2	117	4.3	•	1.87
89800059	بنا	10	7	10.8	5.7	153.3	112	4.8	86.5	1.64
89A00067	(E)	10	7	10.6	5.1	155.9	115	5.0	148.2	1.78
Mean Std Dev				11.23	6.23	154.58	116.8	4.75	125.75	1.788

	:			Appendix	ັ) ອ	(cont.):	SERUM	CHEMISTRY		
Animal Number	Sex	Group	Day	CAL	PHOS	A N	CL	ス	IRON	MAG
89 <b>A</b> 00012		-	7	a. 5		4.1.	114		2.	ε,
89A00042		7	7	11.9		56.			9	9.
89A00058	Σ	_	7	10.1	5.7	150.9	121	4.3	42.4	1.44
89A00022			7		•	53.	$\vdash$	•	ω.	4.
89A00038			7	6.6		52.	~	•		4.
89 <b>A</b> 00072		1	7		•	53.	Ţ	•	•	7.
Mean					۲.	9.		4	8.1	.51
Std Dev				0.95	1.47	ж •		0.15	31.37	0.143
9 <b>A</b> 0000	Σ	7	٢	•		50.	2	•		. 2
9A0C00	Σ	7	۲.		•	49.	$\prec$		9	9.
89A00047	Σ	2	7	7.01	6.5	152.0	117	4.9	82.1	1.65
9,40,003	Ĺ	2	7		•	55.	$\overline{}$	•	0	9.
98000R6	ш	2	7		5	52.	$\leftarrow$	•	73.	. 2
9 <b>4</b> 0006	[L	2	7			50.	Ţ	•		4.
Mean				1 .	-:	9.	1 .	4.	4.1	.53
Std Dev				0.61	0.97		1.6	0.29	22.04	0.158
9 <b>A</b> 0000	Σ	m	7	•	•	46.		•		4.
89A00045	Σ	٣	۲,	8.6	5.7	151.5	117	4.6	130.2	1.62
9 <b>A</b> 0005	Σ	$\kappa$	7		•	55.	$\vdash$	•	0	9.
9 <b>A</b> 0002	Ĺų	$\sim$	7		•	52.	J	•	9.	٠4
9A0003	ſъ	$\sim$	7	٠	٠	51.	~~	•	7	.5
9 <b>A</b> 0006	'n	m	7	•	•	51.		•	8	۲.
Mean				.3	9.	151.60	116.8	4.60	76.63	1.575
Std Dev				0.85	0.61	7.	•	. 2	7.6	60.

1.778 1.663 0.182 1.340 0.1631.47 1.71 1.37 1.58 1.87 1.48 1.55 1.85 1.83 1.99 2.00 1.62 1.60 2.04 1.91 1.76 95.22 38.08 152.40 76.19 198.03 73.95 187.1 140.0 170.2 200.1 90.9 79.8 63.5 168.6 70.8 135.8 168.8 88.5 73.9 287.2 341.8 149.0 IRON CHEMISTRY 4.67 4.75 4.87 4.6 4.8 4.8 7. 4 5. 0 4. 4 7. 4 44.3 44.3 4.3  $\simeq$ 117.0 ო. თ. SERUM 116 118 123 115 1116 1112 1116 1114 1112 120 114 113 116 123 113 114 113 3 CL11 154.20 153.92 4.88 154.37 3.01 155.2 153.1 154.5 152.9 153.1 151.4 155.5 153.4 157.6 157.6 144.5 154.1 158.7 155.2 154.8 (cont.): AA 5.63 .37 .45 PHOS 5.3 6.4 5.9 5.0 5.0 6.2 5.8 5.1 6.0 5.7 3.6.3 G 5 2 2 2 3 0 Appendix 11.02 0.5811.32 10.77 0.48 10.7 11.8 11.4 11.0 10.9 10.8 11.5 10.9 10.3 12.0 11.8 111.1 12.1 10.6 CAL Day r**にこてにて** rGroup 999999 44444 202020 Sex ΣΣΣωωω ΣΣΣώώω ΣΣΣωωω 89**A**00056 89**A**00020 89**A**00039 89**A**00041 89**A**00061 89A00048 89A00046 89A00065 89A00069 89A00050 89A00029 89A00018 89A00004 89A00011 89A00027 85A00007 89A00051 89A00071 Mean Std Dev Animal Mean Std Dev Number Std Dev Mean

:			İ	Appendix	ၒ	(cont.):	SERUM	CHEMISTRY			
	Sex	Group	Day	CAL	PHOS	N A	CL	쏘	IRON	MAG	
940001	Σ	7	7			8	_		~	م.	
9A0004	Σ	, ,	, ,			52.	2		. 4	9	
89A00054	ž	7		] . ]	9.7	153.3	115	5.0	135.0	1.52	
9 <b>A</b> 0003	<u> </u>	7	7			53.	_		73.	.5	
9A0003	Ŀ	7	7		•	52.	<del></del>	•	E	9.	
9 <b>A</b> 0007	Ĭ.,	¢.	٢	•	•	51.	$\leftarrow$	•	65.5	9.	
Mean				∞	6.	$\frac{1}{\infty}$	١.	5.	0.3	.57	
Std Dev				0.64	1.20			0.45	27.18	0.103	
9 <b>A</b> 0000	Σ	တ	7		•	48.	2	•	9	.3	
9 <b>A</b> 0001	Σ	œ	7			51.	↽	•	$^{\omega}$	٤.	
89A00053	Σ	8	7	8.6	6.3	148.8	121	4.7	50.5	1.50	
9A0001	Ĺ	30	7	•	•	51.	$\overline{}$	•	<u>о</u>	9.	
9A0006	ند	80	7	•	٠	51.	( 😼	٠	4.	. 4	
9A0006	Ŧ	80	7			. 09	7	•	Э,	9.	
Mean				5.	9.	3.		4.	7.8	49	
Std Dev				0.32	0.64	4		0.29	25.86	0.106	
980000	Σ	σ	7			47.	~	•	ω.	.5	
89A00049	Σ	י ס	7	9.7	5.8	147.7	119	4.2	66.2	1.40	
91,0005	Σ	6	7	•	•	55.	7	•	9	.5	
9A0002	Ŀı	6	-	•	•	51.	$\vdash$	•	9	. 5	
9 <b>A</b> 0003	[±,	9	,		•	52.	7	•	LN	4.	
9A0006	ĹĿ	6	7		•	54.	$\leftarrow$	•	81.0	. 4	
Mean					8.	151.57	118.7	4.42	62.80	1.505	
Std Dev				0.47	0.78	ω.	•	┌.	2.6	.0.	

				Append	pendix G (	(cont.):	SERUM	CHEMISTRY			
Anima¹ Number	Sex	Sex Group Day	Бау	ALT	AST	ALK	НСП	GGT	CK	ВІСІ	СНОГ
90000400	2	0	7.7		75 3	44.1	64.2	4.0	139.81	00.00	201.7
59A00006	Ξ 2	) C	r <		33.1		377.4	3.4	280.47	00.00	334.9
89A00044	Σ	2 5	r <	25.03	24.00	ر ارد م ارد	106.1	5.6	105.99	00.0	318.5
89AUUU57	Σί	) (	r <		0.50	•	128.9	7.0	105.75	00.00	199.6
89A00034	Ŀ	7.0	14		6.77	•			00 001		7 3 6
89A00059	Œ	10	14		27.5	82.3	170.7	2.8	140.99	00.0	100.0
89A00067	ند	10	14		34.6	•	334.9	5.0	265.61	00.0	218.1
6				30.27	27.90		188.62		173.10	0.000	234.40
Redn Std Dev				5.77	4.88	22.56	132.34	1.55	79.08	0.000	77.30

				Appendix	ט	(cont.):	SERUM CE	CHEMISTRY	20		
Animal Number	Sex	Group	Бау	ALT	AST	ALK	ТОН	GGT	CK	BILI	СНОГ
9 <b>A</b> 0001	ΣΣ			5.		90.	85.	•	1.1	•	79.
9 <b>A</b> 0004 9 <b>A</b> 0005	ΣΣ	⊣ ⊢		 ω	 o o	uz. 61.			, o . o 85.1		
9A0002	<u>.</u>			0	9	05.	50.		87.5	•	87.
89A00038	لعب لع	~ -	14	16.5	84.6	114.1	87.6	5.6 6.6	80.09	0.00	111.2
	•	ŧ						. 1		٠ }	
Mean Std Dev				26.37	90.43	154.22	154.32	5.53	182.49	0.000	137.85
)				• •		) •	•	•	) • }	) )	• •
9A0000	Σ	2		47.1	3.	28.	7	•	7.6	٠	4
89A00009	Σ	2	14	27.3	77.2	134.6	184.5	3.8	132.79	0.00	91.5
9 <b>A</b> 0004	Σ	<u>ر</u> ،		•	4.	26.	<u>-</u>	•	8.2	٠	ω
9A0003	ш	~			;	33.	8	•	1.5	•	23.
9A0006	ĹĿ	2			9	70.	4.	•	89.5	•	7.
9 <b>A</b> 0006	Ĺ	7		•	;	24.	92.	•	7.7		7.
Mean				8.4	4.1	6.2	86.4	4.	36.2	00.	ا س
Std Dev				35.54	19.79	17.20	203.19	0.85	110.72	0.000	28.10
9 <b>V</b> 000 <b>V</b> 6	Σ	ĸ		7	21.	41.	75.	•	73.8	0.	
89A00045	Σ	w.	14	37.4	102.8	108.3	199.3	6.0	436.66	00.00	160.3
9 <b>A</b> 0005	Σ	m		$^{\circ}$	03.	33.	11.	•	50.8	0.	37.
9 <b>A</b> 0002	[±	٣		2.	02.	9.	16.		55.4	0.	
9A0003	Ĺ	m		9.	02.	8	71.	•	61.0	0.	61.
9 <b>A</b> 0006	لد	Μ		ش	30.	19.	5.	•	0.5	0.	2.
Mean				68.08	110.67	118.52	191.77	6.67	241.39	0.013	104.03
Std Dev				4.1	12.3	22.2	89.5	m.	35.3	.03	38.1

CHEMISTRY

SERUM

(cont.):

G

Appendix

226.10 94.64 195.53 50.62 264.55 93.63 202.0 373.1 309.7 167.5 177.0 203.2 192.6 286.1 180.0 132.0 179.3 257.3 400.8 357.4 193.4 179.9 CHOL 0.012 0.008 0.012 C.029 0.00 0.00 0.00 0.00 0.00 0.00 BILI 242.87 286.94 166.69 209.81 187.65 268.36 227.05 46.98 156.98 247.16 324.20 277.38 222.89 200.93 238.26 58.71 237.68 64.67 254.52 288.50 254.50 302.39 198.04 CK 4.33 4.03 5.08 3.6 5.3 11.0 2.4 4.6 3.6 4.3 3.3 5.1 3.5 3.1 6.7 3.0 4.4 6.4 9.9 9.9 GGT 219.80 74.28 214.90 141.30 231.67 109.94 93.6 305.5 439.7 241.1 78.1 139.4 352.4 216.0 242.8 199.1 227.4 221.6 333.9 375.1 151.6 LDH 58.18 15.43 56.18 19.35 48.27 17.32 57.4 73.9 71.4 30.5 56.9 59.0 73.0 60.7 31.7 37.0 80.6 81.3 41.4 52.6 41.5 39.2 ALK 32.18 5.71 30.75 32.55 9.14 24.6 36.2 28.5 35.0 39.0 36.5 32.9 36.0 36.0 43.8 29.5 16.6 28.1 27.4 37.8 27.7 33.3 30.2 AST 42.85 18.26 37.12 19.40 100.78 52.3 75.3 39.6 33.2 28.5 09.4 55.0 84.6 256.9 75.9 26.8 34.7 75.3 20.9 34.1 30.9 ALT Day Group 4444 22222 999999 Sex ΣΣΣωωω ΣΣΣμμμ ΣΣΣώώω 89A00056 89A00018 89A00048 89A00020 89A00039 89A00004 89A00011 89A00046 89A00027 89A00065 89A00069 89A00007 89A00050 89A00051 89A00029 89A00041 89A00071 89A00061 Animal Number Std Dev Std Dev Std Dev Mean Mean

				Appendix	ဗ	(cont.):	SERUM	CHEMISTRY			,
Animal Number	Sex	Group	Day	ALT	AST	ALK	Трн	CGT	CK	1716	СНОГ
89A00019	Σ	Ī		4.	5.	34.	4	•	24.8	•	91.
89A00043	ΣΣ	- r	14 14	20.8	97. I 9. I. B	113.6	410.9	ν. Ο α	289.00 165.01	00.0	151.6
89A00030	E 14			 	5.				62.6		86.
89A00035	Ē	7		0	€.	4.	74.	•	05.1	•	0
89A00070	Ŀ	7		l.		0	72.	•	87.0	•	8
Mean				6.	9.	6.7	91.2	0.	2.2	00.	5.1
Std Dev				5.99	7.35	52.39	131.75	1.42	69.81	0.000	51.39
89A00001		80	14		7.	59.	ω.	•	3.7	0.	4.
89A00013		80	14	•	21.	72.	9.	•	98.0	0	9
89A00053		80	14	•	ж •	33.	77.	•	68.2	0.	2.
89A00040	ĹĿ	80	14	17.0	103.7	107.3	311.4	6.3	234.98	00.0	59.4
89 <b>A</b> 00062		ω	14	•	4.	80.	12.	•	87.0	0.	4
89 <b>4</b> 00068		∞	14	•	0	0	32.	•	35.8	0.	1.
Mean				20.13	100.03	128.83	158.47	5.37	156.31	0.000	86.85
Std Dev					12.3	33.9	0.8	0.	50.8	00.	2.9
9 <b>A</b> 0000	Σ	6	14	•	7.	28.	ж	•	05.9	0.	7.
9 <b>A</b> 0004	Σ	6	14	•	17.	2.	86.	•	0.0	0.	0
9A0005	Σ	6	14	•	5.	78.	6	•	3.2	0.	ω
9 <b>A</b> 0002	Ē	o (		•	$\frac{01}{2}$	7.	۲.	•	92.7	٠.	
89A00037	ביי (ב	ത ത	, <del>-</del>	23.0	85.1	78.4	108.5	4. 4. 2. 4.	109.61	00.00	83.8
	4	`		•	•	•	,	.	2 2 2		
Mean Std Dev				27.30	98.55 25.63	98.33	111.40	5.37	121.95 55.36	0.000	80.60 17.56

				Appendix G		(cont ):	SERUM	CHEMISTRY			
Animal Sex Group Day Number	Sex	Group	Бау	TRIG	URIC	TP	ALB	A-G	СГО	BUN	CR
90000000	2	10	1.4	000	0	5.9		1.2	97.9	13.8	6.0
89800008	ΞΣ	2 -	7 7	0.4	0.5	6.1	2.9	6.0	85.4	17.1	0.8
89400057	Σ	2 0	4 -	61	0.2	5.6		1.2	86.9	21.8	0.8
89A00034	: Œ	10	14	61	0.3	5.8		1.7	92.4	17.2	
89200059	, Lt	0.0	14	55	1.8	5.8		1.2	70.4	17.5	
89A00067	י ניי	10	14	94	1.6	6.3		1.7	7.06	18.1	6.0
W C				64.8	0.72	5.92	3.33		87.28	17.58	0.82
Std Dev				15.8	0.77	0.25	0.38	3 0.32	9.37	2.56	0.08

		;	i	Appendix	ტ	(cont.):	SERUM CH	CHEMISTRY			
Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89400012		₽				•		•	7.	ထ	
89A00042		-			•	•				· .~	•
89A00058		<del></del> 4				٠	٠	•	97.	8	
89A00022	[zı	Ţ	14	25	0.2	4.5	2.3	1.0	81.7	15.0	0.7
89A00038		٦			•	•	•	•	5.	ω	•
89 <b>A</b> 00072		П			•	٠		•	7 .	6.	•
Mean				9	ا m	9.	4.	8.	7.	8.4	8.
Std Dev				35.8	0.57	1.28	0.22	0.38	7.92	4.49	0.13
89A00003		2	14	23	•	•	•	•	0	2.	
89A00009		2	14	44	•	•	•	•	92.	ς.	•
89A00047		2	14	33	٠	•	•	•	11.	ω	•
89A00031	ſщ	7	14	33	0.3	5.0	2.7	1.2	103.3	14.3	0.7
89A00063		2		26	•	٠	•	•	31.	9	•
89A00066		2	14	32	•	•	•	•	00	5.	•
Mean				31.8	9.	5	9	1 .	9.9	•	7.
Std Dev				7.3	0.85	2.16	0.23	0.37	13.56	5.1	0.10
89A00002		m	14	36	•		•		2	5.	•
89A00045		3	14	41	٠	•	•	•	ω.	4	•
89A00052	Σ	٣	14	38	0.5	7.3	2.4	0.5	95.3	17.1	9.0
89A00025		m	14	27	•	•	•	•	α	ნ	•
89A00033		m	14	24	•	•	٠	•	82.	9	•
89A00064		m	14	39	•	•	•	•	4	5.	•
Mean				34.2	0.47	6.12	—	0.63	98.50	16.38	0.70
Std Dev				7.0	9.	4.	•	.2	5.2	1.9	0.14

				Appendix	(co	(cont.):	SERUM C	CHEMISTRY			
Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	СГО	BUN	CR
100040	2			7.5			•	•	1.	ω	•
940004	ΞΣ	r 4		50			•	•	9	7.	•
2000A9	Σ:	. 4		62		•		٠	7	4.	•
940000	<u>.</u> [	٠ ٧		68		•	٠	•		9	•
940003	, Cz.	. ব	14	48	0.1	5.6	3.5	1.7	84.5	13.8	6.0
89,400071	بدا ا	4	14	59		•	•	•	9		•
S C ON					\ ~	0	5	4.	6.1	17.68	0.80
Rean Std Dev				9.6	0.40	0.49	0.25	0.29	12.84	3.7	۲.
									C	Ľ	
9A0000		2		65	٠	•		•	;		•
9A0001		5		69	•		•	٠	٠ .	າ ຕ	•
940004		S		89	•	•	•	٠	4	7 .	•
9AG002		2		86	0.2	6.1	3.7	1.6	83.5	15.5	ж. О
9A0006		S		59	•	•	•	•	5.	0 1	•
89A00069	Ĺ	5	14	69	•	•	•	•	04.		•
9				-	1	1 6	5	٣.	2.9	-	0.88
Medn Std Dev				13.6	0.88	0.34	0.39	0.22	14.64	5.25	Τ.
1									,	,	
940000		9	14	4.7	•	٠	•	•	αĮ.	; ,	•
9A0005		9	14	83	•	•		•	0	 	•
9A0005		9	14	69	•	•	•	•	9	· ·	•
000000		ع ،	14	69	•	•	•	•	ω	5	٠
400040		ی د	14	23	0.2	5.8	3.8	1.8	74.3	20.2	1.0
89A00061	, <u>Le</u> ,	9	14	71		•	•	•	5.	9	•
9				L.	4	10	9	4.	7.	٠	0.83
Mean Std Dev				13.1	0.65	0.44	0.30	0.21	9.41	2.3	۲.

				Appendix	ဗ	(cont.):	SERUM CI	CHEMISTRY			
Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
440001	Σ	٢		æ					~	·~	
1000KP	: ≥	٠ ر		32	•				0	ነ ፈ	•
F00040	Ξ :	- ر		3,5	•	•	•	•		·	٠
9AUUUS	Σ	<b>,</b>		ر بر		•	•	•	•	و و	•
9A0003	Œ	7		14	•	•	•	•	χ.	5.	•
89A00035	Ĺ	7	14	29	0.2	3.6	5.6	2.5	95.2	22.9	0.8
9 <b>A</b> 0007	Ĺ	7		31	•	•	•	•	2.	2.	•
Mean				.	4.	5	4.	-:	8.0	4.	7.
Std Dev				0.6	0.67	1.58	0.17	0.81	12.53	5.69	0.08
9 <b>A</b> 0000	Σ	8		26					4		
9A0001	Σ	α		23				•	6	œ	
9 <b>A</b> 0005	Σ	∞		37		•			89.	. 0	
89A00040	Ĺτι	σ		19	0.0	3.4	1.9	1.3	85.5	21.0	0.7
9 <b>A</b> 0006	لعا	8		17	•	•	•		0	7.	
9 <b>A</b> 0006	ĹĿij	ω	14	19	•	•	•	•	5.	. 9	•
Mean					9.		0.	8	6	.5	7.
Std Dev				_	0.93	2.10	0.22	0.45	9.59	3.61	0.12
9 <b>A</b> 00000	Σ	6		24			•	•	05.	9.	•
89A00049	Σ	6	14	25	0.0	7.2	1.8	0.3	107.8	15.1	9.0
9A0005	Σ	6		29	•	٠	•	•	92.	7 .	٠
9A0002	ĹĿı	6		13	•		•	•	12.	<u>ښ</u>	•
9A0003	Ŀı	9		22	•	•	•	•	4.	5.	•
9 <b>A</b> 0006	נצו	6		26	•	•	•	•	.90	7	•
Mean				23.2	0.33	6.03	2.10	0.67	106.52	16.45	0.68
Std Dev				•	9 .	9.	. 2	٣.	6.	2.1	⁻

	1			Appendix G	ტ	(cont.):	SERUM	CHEMISTRY		
Animal Sex Group Day	Sex	Group	Day	CAL	PHOS	NA	CL	ズ	IRON	MAG
89A00006	Σ	10	14	10.4	5.7	152 3	117	٦.	151 2	1 1 1
89A00044	Σ	10	14		5.5	154.6	114	. 4	118.2	1.31
89A00057	Σ	10	14	10.6	4.6		118	4.7	733.9	1.07
89A00034	ĹŦI	10	14		4.3	152.7	114	· • • • • • • • • • • • • • • • • • • •	97.5	00:1
89A00059	[14	10	14	11.3			115	4.8	8.08	# C C
89 <b>8</b> 00067	ĭч	10	14		4.8	157.1	117	5.3	166.8	2.13
Mean				10.92	5.12	152.	115.8	4.90	124.73	1.763
Std Dev				0.86	0.63	3.39	1.7	0.26	32.46	0.216

Animal Sex Group Day CAL PHOS NA CL K IRON MAG  Number  Sydonoliz M 1 14 9.3 6.4 150.9 118 4.9 52.2 1.67  Sydonoliz M 1 14 9.8 5.8 150.2 114 4.3 44.4 1.35  Sydonoliz F 1 14 9.6 6.2 148.4 119 4.2 51.8 1.48  Sydonoliz F 1 14 9.6 6.2 148.4 115.2 4.5 53.6 1.80  Std Dev  Std Dev  Mean  Sydonoliz F 2 14 9.7 5.47 18.7 119 4.2 63.5 1.50  Mean  Sydonoliz F 2 14 9.7 6.8 150.4 119 4.2 63.5 1.50  Mean  Sydonoliz F 2 14 9.6 6.8 150.4 119 4.2 63.5 1.50  Mean  Sydonoliz F 2 14 10.6 6.5 150.7 118.8 4.6 5.1 1.55  Sydonoliz F 2 14 10.6 7.1 155.8 119 4.2 63.5 1.55  Sydonoliz F 2 14 10.6 7.1 155.8 119 4.5 63.5 1.55  Sydonoliz F 2 14 10.6 7.1 155.8 119 4.5 63.5 1.55  Sydonoliz F 2 14 10.6 7.1 155.8 119 4.5 63.5 1.55  Sydonoliz F 2 14 10.6 7.1 155.8 119 4.5 63.5 1.55  Sydonoliz F 2 14 10.6 7.1 155.8 119 4.5 63.5 1.55  Sydonoliz F 2 14 10.6 7.1 155.8 119 4.5 63.5 1.55  Sydonoliz F 2 14 10.6 7.1 155.8 119 4.5 63.5 1.55  Sydonoliz F 2 14 10.6 7.1 155.8 119 4.5 63.5 1.60  Sydonoliz F 3 14 8.5 6.5 152.67 118 4.5 63.5 1.55  Sydonoliz F 3 14 8.5 6.5 150.70 117.8 4.5 63.3 1.66  Sydonoliz F 3 14 9.8 6.3 150.6 116 4.9 63.5 1.56  Sydonoliz F 3 14 9.8 6.3 150.6 116 4.9 77.1 1.44  Sydonoliz F 3 14 9.8 6.3 150.6 116 4.9 63.5 1.56  Sydonoliz F 3 14 9.8 6.3 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.3 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.3 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.3 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.3 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.3 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.3 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.3 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.3 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.3 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.3 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.3 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.3 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.3 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.3 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.5 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.5 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.5 150.70 117.5 1.60  Sydonoliz F 3 14 9.8 6.8 6.8 1.60  Sydo					Appendix	ტ	(cont.):	SERUM	CHEMISTRY			i
M 2 14 9.3 6.4 150.9 118 4.9 52.2 1.67  M 1 14 9.8 5.8 150.2 114 4.3 44.4 1.35  F 1 14 9.8 5.8 150.2 114 4.3 44.4 1.35  F 1 14 9.0 4.9 140.3 108 4.2 41.0 1.68  F 1 14 9.0 6.2 148.6 117 4.5 53.6 1.80  9.47 5.47 148.40 115.2 4.53 46.52 1.25  M 2 14 9.3 5.2 147.8 119 4.2 78.5 1.25  M 2 14 9.4 6.8 156.4 119 4.2 78.5 1.25  F 2 14 10.2 6.5 156.3 123 4.6 88.3 1.74  F 2 14 9.4 6.8 156.4 119 4.6 62.6 1.55  F 3 14 8.5 6.5 152.7 117 4.5 69.12 1.55  M 3 14 8.5 6.5 152.7 117 4.5 91.5 118  M 3 14 8.5 6.5 152.7 117 4.5 91.5 1.65  M 3 14 8.5 6.3 150.6 116 4.9 77.1 1.65  F 3 14 9.5 4.6 150.6 116 4.9 77.1 1.65  B 9.6 5.2 150.70 117.5 4.6 63.9 1.56  B 9.6 5.2 150.70 117.5 4.6 63.9 1.56  B 9.6 6.3 154.1 123 4.6 67.18  B 9.6 6.3 154.1 123 4.6 67.18  B 9.6 6.3 154.1 123 4.6 67.18  B 9.6 6.3 154.1 123 4.6 67.18  B 9.7 6.8 150.70 117.5 4.60 75.18  B 9.6 6.3 154.1 123 4.60 75.18  B 9.6 6.3 154.1 123 4.60 75.18  B 9.6 6.3 154.1 123 4.60 75.18  B 9.6 6.3 154.1 123 4.60 75.18  B 9.6 6.3 154.1 123 4.60 75.18  B 9.6 6.3 154.1 123 4.60 75.18  B 9.6 6.3 154.1 123 4.60 75.18  B 9.6 75.18  B 9.7 117.5 7.71  B 9.8 6.3 154.1 123 4.60 75.18  B 9.8 7.11		Sex	Group	Ø		PHOS	AN	CI	Ж	IRON	MAG	
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M I 14 9.8 5.8 150.2 114 4.3 44.4 1.35  F I 14 9.6 4.9 149.0 115 4.5 41.0 1.26  F I 14 9.6 4.9 149.0 115 4.5 53.6 1.80  F I 14 9.6 4.9 149.0 115 4.5 53.6 1.80  O.40 0.76 4.11 4.0 0.26 7.12 0.201  M 2 14 9.3 5.2 147.6 119 4.2 78.5 1.25  F 2 14 9.4 6.8 155.3 123 4.6 88.3 1.74  F 2 14 9.4 6.8 155.4 118 4.2 63.5 1.75  F 2 14 9.4 6.8 155.6 118 4.6 6.1 1.55  O.62 1.10 3.61 2.6 0.22 15.55  O.63 1.80 4.2 69.12 1.55  M 3 14 8.5 6.5 152.6 118.8 4.4 5 69.12 1.55  O.65 1.50 6.116 4.9 77.1 1.65  M 3 14 8.5 6.5 152.6 118 4.5 69.12 1.55  O.65 1.50 6.116 4.9 77.1 1.65  E 3 14 9.5 6.8 150.6 116 4.9 77.1 1.65  E 3 14 9.5 6.3 154.1 123 4.8 80.3 1.56  O.60 0.95 2.44 3.1 0.25 14.27 0.08	0.000.00	2		14	•		50.	<b>←</b> i	٠	, ,	د	
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F 1 14 9.6 4.9 149.0 115 4.6 51.8 1.488 F 1 14 9.6 6.2 148.6 117 4.5 53.6 1.800   F 1 14 9.6 6.2 148.6 117 4.5 53.6 1.800   9.47 5.47 148.40 115.2 4.53 46.52 1.500   0.400 0.76 4.11 4.0 0.26 7.12 0.201   M 2 14 9.7 5.47 150.4 115 4.7 44.4 1.47   F 2 14 9.4 6.8 156.4 119 4.2 78.5 1.25   F 2 14 10.2 6.5 156.3 118 4.6 62.6 1.55   F 2 14 10.6 7.1 155.8 119 4.6 63.5 1.55   0.62 1.10 3.61 2.6 0.22 15.55 0.19   M 3 14 8.5 6.5 152.7 117 4.5 91.5 1.60   M 3 14 8.6 4.8 148.7 114 4.5 91.5 1.60   F 3 14 9.5 4.6 150.6 116 4.9 77.1 1.65   M 3 14 8.6 4.8 148.7 114 4.5 91.5 1.60   F 3 14 9.5 4.6 150.6 116 4.9 77.1 1.65   8.90 5.22 150.70 117.5 4.60 75.18 1.56   8.90 5.22 150.70 117.5 14.2 0.08   0.60 0.95 2.44 3.1 3.1 0.25 14.27 0.08	9 <b>A</b> UUU5	Σ. (	<b>⊣</b> -		•		40.	0	٠		7.	
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M       2       14       5.47       148.40       115.2       4.53       46.52       1.500         0.40       0.76       4.11       4.0       0.26       7.12       0.201         M       2       14       9.3       5.2       147.8       119       4.2       78.5       1.25         M       2       14       9.7       4.7       155.3       123       4.6       88.3       1.74         F       2       14       9.7       4.7       155.3       123       4.6       88.3       1.74         F       2       14       9.7       6.8       156.3       119       4.6       62.6       1.52         F       2       14       10.6       7.1       155.8       119       4.4       62.6       1.55         F       2       14       10.6       7.1       155.8       119       4.4       62.6       1.55         F       2       14       10.6       7.1       155.8       119       4.4       6.0       1.55         9.68       5.85       152.67       118.8       4.45       69.12       1.53         0.62       1.10 <td< td=""><td>9<b>A</b>U303 9A0007</td><td>بت نت</td><td><b></b></td><td></td><td></td><td></td><td>48.</td><td>1</td><td>•</td><td>m.</td><td>∞.</td><td></td></td<>	9 <b>A</b> U303 9A0007	بت نت	<b></b>				48.	1	•	m.	∞.	
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M       2       14       9.3       5.2       147.8       119       4.2       78.5       1.23         M       2       14       9.7       4.7       155.3       123       4.6       88.3       1.74         M       2       14       9.7       4.7       156.3       115       4.7       44.4       62.6       1.52         F       2       14       9.7       4.7       1.9       4.4       62.6       1.52         F       2       14       10.6       7.1       155.8       119       4.4       62.6       1.55         F       2       14       10.6       7.1       155.8       119       4.4       62.6       1.55         F       2       14       10.6       7.1       155.8       119       4.4       62.6       1.55         9.68       5.85       152.67       118.8       4.4       63.5       1.50         0.62       1.10       3.61       2.6       0.22       15.55       0.19         M       3       14       8.5       1.5       77.1       1.65         M       3       14       8.6       4.5 <t< td=""><td></td><td></td><td></td><td></td><td>. 4.</td><td>۲.</td><td>4.1</td><td>4.</td><td>. 2</td><td><del></del></td><td>.20</td><td></td></t<>					. 4.	۲.	4.1	4.	. 2	<del></del>	.20	
M         2         14         9.3         5.2         147.6         119         4.2         78.5         1.25           M         2         14         8.9         4.7         155.3         123         4.6         88.3         1.24           M         2         14         9.7         4.7         150.4         115         4.6         88.3         1.74           F         2         14         9.7         4.7         150.4         118         4.7         62.6         1.55           F         2         14         10.0         7.1         155.8         119         4.6         62.6         1.55           F         2         14         10.6         7.1         155.8         119         4.6         62.6         1.55           F         2         14         10.6         7.1         155.8         119         4.45         69.12         1.55           9.68         5.85         152.67         118.8         4.45         69.12         1.55           M         3         14         8.3         4.9         148.7         114         4.5         85.3         1.53           M <t< td=""><td>רמ ט</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	רמ ט											
M 2 14 8.9 4.7 155.3 123 4.6 88.3 1.74  M 2 14 9.7 4.7 150.4 115 4.7 44.4 1.47  F 2 14 9.4 6.8 156.4 119 4.2 62.6 1.52  F 2 14 10.2 6.5 15C.3 118 4.2 63.5 1.55  9.68 5.85 152.67 118.8 4.45 69.12 1.55  0.62 1.10 3.61 2.6 0.22 15.55 0.19  M 3 14 8.5 6.5 152.7 117 4.5 85.3 1.65  M 3 14 8.6 4.8 148.7 114 4.5 85.3 1.65  F 3 14 8.7 4.6 150.6 116 4.9 77.1 1.65  8.90 5.22 150.70 117.5 4.60 75.18 1.56  0.08 0.95 2.44 3.1 0.25 144.27 0.08			C	1.4			47.	$\leftarrow$	•	ω	2.	
M       2       14       9.7       4.7       150.4       115       4.7       44.4       1.47         F       2       14       9.4       6.8       156.4       119       4.4       62.6       1.52         F       2       14       10.2       6.8       156.3       118       4.2       62.6       1.52         F       2       14       10.2       6.5       156.3       119       4.6       77.4       1.77         9.68       5.85       152.67       118.8       4.45       69.12       1.55         M       3       14       8.5       1.10       3.61       2.6       0.22       155.55       0.19         M       3       14       8.5       6.5       152.7       117       4.5       85.3       1.55         M       3       14       8.5       4.9       148.7       114       4.5       91.5       1.60         F       3       14       8.6       4.2       150.6       116       4.7       53.0       1.44         F       3       14       9.8       6.3       150.6       119       4.2       63.9       1.56	89A00003		<b>7</b> (	r <			55.	$\sim$	٠	α	`.	
F 2 14 9.4 6.8 156.4 119 4.4 62.6 1.52 14 10.2 6.5 15C.3 118 4.2 63.5 1.55 1.55 1.77 4.1 1.77 4.6 11.0 3.61 2.6 0.22 15.55 0.193 M 3 14 8.5 6.5 152.7 117 4.5 85.3 1.55 0.193 M 3 14 8.6 4.8 140.6 116 4.7 5.3 0.195 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.6	89A0009		7 (	, L			50.	$\overline{}$	•	4	7.	
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9.68       5.85       152.67       118.8       4.45       69.12       1.55         0.62       1.10       3.61       2.6       0.22       15.55       0.19         M       3       14       8.5       6.5       152.7       117       4.5       85.3       1.53         M       3       14       8.5       6.5       148.7       114       4.5       91.5       1.60         M       3       14       8.6       4.8       147.5       116       4.9       77.1       1.44         F       3       14       8.7       4.6       150.6       116       4.2       63.9       1.50         F       3       14       9.8       6.3       154.1       123       4.8       80.3       1.66         B.90       5.22       150.70       117.5       4.60       75.18       1.56         B.90       5.22       150.70       117.5       4.60       75.18       1.56         B.90       5.22       150.70       117.5       4.60       75.18       10.08         B.90       5.22       150.70       117.5       75.18       14.27       0.08 <tbod< td=""><td>89A00063 89A00066</td><td></td><td>7 ~</td><td>14</td><td></td><td></td><td>55.</td><td>~~</td><td>•</td><td>7.</td><td>~  </td><td></td></tbod<>	89A00063 89A00066		7 ~	14			55.	~~	•	7.	~	
M     3     14     8.5     6.5     152.7     117     4.5     85.3     1.53       M     3     14     8.5     6.5     152.7     117     4.5     85.3     1.53       M     3     14     8.3     4.9     148.7     114     4.5     91.5     1.60       M     3     14     8.3     4.9     148.7     116     4.9     77.1     1.65       F     3     14     9.5     4.2     150.6     119     4.2     63.9     1.50       F     3     14     9.8     6.3     154.1     123     4.8     80.3     1.66       B     9.9     5.22     150.70     117.5     4.60     75.18     1.56       B     9.6     5.22     150.70     117.5     4.60     75.18     1.56       B     9.6     0.95     2.44     3.1     0.25     14.27     0.08					1	0	1 C Z	α	4	9.1	. 55	
M       3       14       8.5       6.5       152.7       117       4.5       85.3       1.53         M       3       14       8.3       4.9       148.7       114       4.5       91.5       1.65         M       3       14       8.6       4.8       147.5       116       4.9       77.1       1.65         F       3       14       9.5       4.2       150.6       119       4.2       63.9       1.54         F       3       14       9.8       6.3       154.1       123       4.8       80.3       1.66         B.90       5.22       150.70       117.5       4.60       75.18       1.56         0.60       0.95       2.44       3.1       0.25       14.27       0.08					. ه	٠. ۲	3.6	2.	. 2	5.5	. 19	
M 3 14 8.5 6.5 152.7 117 4.5 65.5 1.60 M 3 14 8.3 4.9 148.7 114 4.5 91.5 1.60 M 3 14 8.6 4.8 147.5 116 4.9 77.1 1.65 F 3 14 9.5 4.6 150.6 119 4.2 63.9 1.50 F 3 14 9.8 6.3 154.1 123 4.8 80.3 1.66 8.90 5.22 150.70 117.5 4.60 75.18 1.56 0.60 0.95 2.44 3.1 0.25 14.27 0.08	ל נ									ú	Ų	
M 3 14 8.3 4.9 148.7 114 4.5 31.3 1.65 M 3 14 8.6 4.8 147.5 116 4.9 77.1 1.65 F 3 14 9.5 4.2 150.6 119 4.2 63.9 1.50 F 3 14 8.7 4.6 150.6 119 4.2 63.9 1.50 F 3 14 9.8 6.3 154.1 123 4.8 80.3 1.66 8.90 5.22 150.70 117.5 4.60 75.18 1.56 0.60 0.95 2.44 3.1 0.25 14.27 0.08	89400002	Σ	~	14	•		52.	<b>-</b>		·	ۍ (	
F 3 14 8.6 4.8 147.5 116 4.9 77.1 1.03 F 3 14 9.5 4.2 150.6 116 4.7 53.0 1.44 F 3 14 8.7 4.6 150.6 119 4.2 63.9 1.50 F 3 14 9.8 6.3 154.1 123 4.8 80.3 1.66 8.90 5.22 150.70 117.5 4.60 75.18 1.56 0.60 0.95 2.44 3.1 0.25 14.27 0.08	0000000	. ≥	-ب (	14		٠	48.			⊣ (		
F 3 14 9.5 4.2 150.6 116 4.7 53.0 1.99 F 3 14 8.7 4.6 150.6 119 4.2 63.9 1.50 F 3 14 9.8 6.3 154.1 123 4.8 80.3 1.66 8.90 5.22 150.70 117.5 4.60 75.18 1.56 0.60 0.95 2.44 3.1 0.25 14.27 0.08	0.000000	: ≥	) (*	14		•	47.	_	•	• (		
F 3 14 8.7 4.6 150.6 119 4.2 63.9 1.30 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.66 1.50 1.50 1.66 1.50 1.66 1.50 1.66 1.50 1.66 1.56 1.56 1.56 1.56 1.56 1.56 1.56	89800036	<u> </u>	) r	14		•	50.		•	ς,	<b>.</b>	
F 3 14 9.8 6.3 154.1 123 4.8 80.3 1.66 8.90 5.22 150.70 117.5 4.60 75.18 1.56 0.60 0.95 2.44 3.1 0.25 14.27 0.08	89AUUU23	ı, [	) r	7 -		•	50.	-4	•	·,	<u>.</u> ر	
8.90 5.22 150.70 117.5 4.60 75.18 1.56 0.60 0.95 2.44 3.1 0.25 14.27 0.08	89A00033 89A00064	<b>1</b> , [1,	n m	t -1		•	54.	2	•		۰. ا	
Dev 0.60 0.95 2.44 3.1 0.25 14.27 0.08					- 1	(		17	9	5.1	.56	
Dev 0.60 0.90 2:1	Mean				٠	7.	7.00	·	. 2	4.2	.08	
	Std Dev				٠	پ		•				

				Appendix	Ö) 9	(cont.):	SERUM	CHEMISTRY			
Anima. Number	Sex	Group	Day	CAL	PHOS	NA	CL	エ	IRON	MAG	
9 <b>A</b> 0001	Σ	4	14	10.5	•	9	114		<u>س</u>	7.	
9A0C04	Σ	4	14	1.1.	•	53.	~	•	9.	7.	
9 <b>A</b> 0005	Σ	4	14	10.2	•	51.	$\overline{}$	•	47.	$\infty$	
89A00020	بتا	4		11.2	5.3	155.0	1117	5.1	128.6	1.90	
9 <b>A</b> 0003	டெ	4	14	•	•	51.	$\overline{}$	•	76.	ζ.	
9 <b>A</b> 0007	័្រ	4	14	12.7	•	59.	2	•	08.	. 7	
Mean					~	9		ω.	8.8	7.6	
Std Dev				0.87	77.0		7	0.16	38.48	0.113	
9 <b>A</b> 0000	Σ	5		0	•	54.	7	•	99.	9	
89A 1,011	Σ	5	14	11.0	5.1	155.8	117	5.1	149.8	1.66	
9A0004	Σ	5		0	•	49.	0	•	15.	$\infty$	
9 <b>A</b> 0002	נדו	2		,	٠	51.	0	•	ω	9.	
9A0006	لتا	5		-	•	52.	$\overline{}$	•	2.	9.	
9 <b>4</b> 000 <b>6</b>	[T'	5		⊹.	•	61.	$\vdash$	•	. 96	2.	
Mean				2.	\mathcal{\pi}.	.2		6.	2.1	.71	
Std Dev				0.88	0.68			0.39	47.95	0.136	
89 <b>A</b> 00007		9	14		•	49.	┙		70.	9.	
89A00050		9	14			55.	$\leftarrow$	•	.99	ي.	
89A00051	Σ	9	14	10.6	4.1	157.0	116	5.0	200.6	1.92	
89A00029		9		•	•	51.	$\vdash$	•	30.		
89A00041		9	14	•	•	52.	$\overline{}$	•	20.	ω.	
89A00061		9	14	Ϊ.	•	53.	$\vdash$	•	06.	ω.	
an				11.02	5.18	153.03	112.8	5.02	199.23	1.878	
Std Dev				9.		9.	•		57.0		

Animel Number	Sex	Group	Бау	CAL	PHOS	7 2	CL	*	IRON	MAG
89A00019	Σ	7				50.	$\leftarrow$		5.	ω.
89A00043	Σ	7		٠	•	50.	_	•	0	3.
89A00054	Σ	7		•	•	46.	$\leftarrow$	•	4	4.
89A00030	Ŀı	7		•	•	46.	Ţ		2	. 2
89A00035	ĹĿı	7	14	9.2	5.1	148.4	118	4.5	81.8	1.59
89A00070	Ĺij	7		•	•	51.	~~	•	9	. 5
Mean				4.	0.	~	١.	.5	1.9	45
Std Dev				0.59	0.30			0.23	14.46	0.118
89 <b>A</b> 00001		∞			•	48.	$\vdash$	•	ω.	4.
89A00013	Σ	∞	14	8.8	5.2	150.2	121	4.1	50.8	1.31
89A00053		80				50.	~	٠	5.	. 4
89A00040		∞			•	49.	$\vdash$	٠		▽.
89A00062		80			•	50.	7	•	5.	.5
89A00068		ω			•	57.	$\sim$	•	&	9.
Mean				4.	5	-:	.	4.	9.2	.46
Std Dev				0.71	0.55			0.19	22.03	0.107
9 <b>A</b> 0000	Σ	g	14		•	49.	$\leftarrow$		9.	4.
89A00049	Σ	9	14	8.5	5.5	148.0	119	4.6	69.3	1.34
9 <b>A</b> 0005	Σ	6	14		•	51.	┥		5.	4.
9 <b>A</b> 0002	Ŀ	6			•	51.	$\overline{}$		7.	₹.
9A0003	ī	6			•	47.	_	•	5.	⊴.
89A00060	ĹĿij	6			•	49.	2	•	1.	<b>∵</b>
Mean				9.15	5.42	149.57	118.5	4.62	68.12	1.455
Std Dev				ک:	α	1 4	,-	-	7	

## Appendix H: HEMATOLOGY

## List of Hematology Abbreviations/Units

WBC	Total Leukocyte Count (x103 μ1)
RBC	Erythrocytes (x106/µ1)
HGB	Hemoglobin (g/dl)
	Hematocrit (﴿)
MCV	Mean Corpuscular Volume (femtoliters)
MCH	Mean Corpuscular Hemoglobin (picograms)
MCHC	· · · · · · · · · · · · · · · · · · ·
	Platelets $(x10^3/\mu l)$
RET	Reticulocytes (%)
	Polymorphonuclear Granulocytes (%)
	Immature Neutrophils (%)
EOS	Eosinophils (%)
	Basophils (%)
LYM	Lymphocytes (%)
MON	Monocytes (%)
ATL	Atypical Lymphocytes (%)
NRBC	Nucleated Red Blood Cell (#/100 WBC)
PT	Prothrombin Time (seconds)
APPT	Activated Partial Thromboplastin Time (seconds)
NT	
TNTC	Designates PT or APTT value which exceeded
<del>-</del>	measuring instrument's range of 150 seconds
	modeling instruments of range of 100 Seconds

Appendix H (cont.): HEMATOLOGY

F.nimal	Sex	Sex Group Day	Day	WBC	KBC	НСВ	HCT	MCV	МСН	MCHC	P1.T	RET
Number												
900000	Σ	10	-21	8.7	6.55	15.3	44.6	68.1	23.4	34.3	479	1.1
89A00044	Σ	10	-19	14.9	7.05	16.3	49.9	70.8	23.1	32.7	356	1.2
89A00057	Σ	10	20	12.3	7.69	17.7	51.9	67.5	23.0	34.1	227	9. 9.
89A00034	<u> (</u>	10	-15	13.4	8.07	18.2	54.9	0.89	22.6	33.2	5,33	1.6
6300088	Ĺ	10	-12	9.9	7.28	15.6	47.0	64.5	21.4	33.2	241	4.1
49A00067	Œ,	10	-13	6.5	7.10	16.7	48.8	68.8	23.5	34.2	346	1.2
Mean Std Dev				11.40	7.290	16.63	49.52	67.95	22.83	33.62 0.67	363.7 123.3	1.68

Appendix H (cont.): HEMATOLOGY

Animal         Sex Group         Day         WBC         RBC         HGB         HCT         MCM         MCH         MCH <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>1</th><th></th></t<>												1	
<ul> <li>M 1 −22</li> <li>H 1 −22</li> <li>H 1 −22</li> <li>H 1 −22</li> <li>H 1 −22</li> <li>H 1 −20</li> <li>H 20</li> <li>H 3</li> <li>H 3</li> <li>H 3</li> <li>H 47</li> <li>H 3</li> <li>H 47</li> <li>H 40</li> <li>H 40&lt;</li></ul>	Animal Number	Sex	- 1	Day	WBC	<u>au</u> ]	нсв	HCT	MCV	MCH	ACHC	PLT	RET
R         1         -19         12.7         7.54         17.1         52.4         69.5         22.7         32.6         416         416         22.6         33.9         35.1         27.6         416         22.6         33.9         35.1         27.6         416         22.6         33.9         35.1         27.6         416         22.7         32.7         32.6         416         22.6         33.9         37.9         22.7         32.7         33.6         35.1         22.6         34.2         36.9         12.2         33.9         37.9         22.7         36.9         12.2         33.9         37.9         22.7         35.6         34.2         36.9         12.2         37.9	9 <b>A</b> 0001	Σ	н	2	2.	9	9	0	۳	,	c		ł
B         M         1         -20         9.8         7.42         16.8         50.0         67.4         22.6         33.6         34.1         24.1           F         1         -14         9.8         7.62         16.8         49.6         65.1         22.0         33.9         379         2           F         1         -15         12.1         7.95         16.3         49.6         65.1         22.6         33.9         379         2           3         F         1         -15         16.3         16.3         66.3         22.6         34.9         36.1         17.2         34.9         379         2           3         M         2         -21         10.7         7.28         16.9         50.43         67.8         22.72         33.83         34.2         36.1           4         2         -22         16.2         6.68         15.9         49.0         67.3         21.8         32.4         35.1         11.1           5         4         16.9         50.43         67.9         21.7         33.53         381.0         11.2           8         4         2         -22         16.8 <td>9A0004</td> <td>Σ</td> <td>1</td> <td></td> <td>7</td> <td>.5</td> <td></td> <td>. ~</td> <td>5 o</td> <td></td> <td>, c</td> <td>` -</td> <td>٠</td>	9A0004	Σ	1		7	.5		. ~	5 o		, c	` -	٠
F 1 -14 9.8 7.62 16.8 49.6 65.1 22.0 33.9 379 2  F 1 -15 16.4 6.54 16.3 47.7 72.9 24.9 34.2 496 1  12.15 7.448 16.90 50.43 67.85 22.72 33.53 381.0 1.  2.43 0.479 0.61 1.87 2.90 1.17 0.72 72.9 0.72 1.9 0.72 72.9 0.72 1.8	9 <b>A</b> 0005	Σ	-	$\sim$	6.	~	9	0	, _	· <	, ~	<b>→</b> 11	•
F 1 -15 16.4 6.54 16.3 47.7 72.9 24.9 34.2 496 12 12.15 7.448 16.90 50.43 67.85 22.72 33.53 381.0 1	9A0002	ائ	~	~	9.	9.	9	σ.		. ~	7 ~	ر د	•
F 1 -13 12.1 7.95 18.0 52.7 66.3 22.6 34.2 368 1.  12.15 7.448 16.90 50.43 67.85 22.72 33.53 381.0 1.  2.43 0.479 0.61 1.87 2.90 1.17 0.72 72.9 0.72 72.9 0.72 72.9 0.61 1.87 2.92 1.17 0.72 72.9 0.72 72.9 0.72 72.9 0.61 1.87 2.92 16.2 6.68 15.9 47.5 71.1 23.8 33.5 515 3.3 1.453 1.1 10.5 7.64 16.6 49.1 64.3 21.7 33.8 33.7 422 1.2 16.0 7.64 16.6 49.1 64.3 21.7 33.8 443 0.1 12.62 7.395 16.68 49.95 67.63 22.57 33.38 428.3 1.2 2.74 0.388 0.69 1.69 2.38 0.91 0.55 63.4 0.1 0.55 63.9 1.69 2.68 33.3 449.1 1.2 8.74 0.388 0.69 1.69 2.38 0.91 0.55 63.4 49.1 1.2 8.75 1.2 8.75 1.2 8.75 1.2 8.3 1.3 426 2.38 1.2 12.2 7.03 16.0 48.1 68.6 22.8 33.3 1417 2.2 1.2 16.8 7.59 17.3 52.1 68.6 22.8 33.3 449.1 1.2 12.8 18.0 7.59 17.3 52.1 68.6 22.8 33.3 1417 2.2 113.70 7.508 17.02 51.57 68.68 22.67 33.00 451.7 7.4 4.81 0.540 1.18 3.67 1.13 0.12 0.54 54.4 0.1	9A0003	ſæ	۲,	$\overline{}$	9	5.	9	٠.	. 2	4	\	<b>`</b> ♂	•
12.15 7.448 16.90 50.43 67.85 22.72 33.53 381.0 1. 2.43 0.479 0.61 1.87 2.90 1.17 0.72 72.9 0. 2.43 0.479 0.61 1.87 2.90 1.17 0.72 72.9 0. 2.42 16.2 6.68 15.9 47.5 71.1 23.8 32.4 33.5 1. 3. 5 1. 2 -19 11.8 7.74 16.9 51.0 65.9 21.8 33.1 453 1. 453 1. 10.5 7.41 17.2 51.1 68.9 23.2 33.7 422 1. 10.5 7.41 17.2 51.1 68.9 23.2 33.7 422 1. 10.5 7.62 17.6 52.0 68.3 21.7 33.8 443 0. 2 -13 10.5 7.62 17.6 52.0 68.3 21.7 33.8 443 0. 2 -13 10.5 7.89 16.68 49.95 67.63 22.57 33.38 424.3 1. 2 -74 0.388 0.69 1.69 2.38 0.91 0.55 63.4 0. 2 -7 0.388 0.69 1.69 2.38 0.91 0.55 63.4 0. 2 -7 0.388 0.69 1.69 22.6 32.8 33.3 426 7. 5 11.0 1. 2 -7 0.3 16.0 48.1 68.6 22.8 33.3 426 7. 5 11.0 1. 2 -7 0.3 16.0 48.1 68.6 22.8 33.3 426 7. 5 11.0 1. 2 1	9 <b>A</b> 0007	ĹĿ	Н	~	2.	6.	8.	2.	. 9	2.	. 4.	0	
2.43 0.479 0.61 1.87 2.90 1.17 0.72 72.9 0.  M 2 -21 10 7 7.28 15.9 49.0 67.3 21.8 32.4 335 1.  M 2 -22 16.2 6.68 15.9 47.5 71.1 23.8 33.5 515 3.  M 2 -19 11.8 7.74 16.9 51.0 65.9 21.8 33.1 453 1.  F 2 -12 16.0 7.64 16.6 49.1 64.3 21.7 33.8 4422 1.  10.5 7.62 17.6 52.0 68.3 23.7 33.8 443 0.  12.62 7.395 16.68 49.95 67.63 22.57 33.38 422 3.  M 3 -21 18.7 6.73 15.3 47.2 70.1 22.7 32.4 523 3.  M 3 -21 18.7 6.73 15.3 47.2 70.1 22.7 32.4 523 5.  M 3 -20 12.2 7.03 16.0 48.1 68.4 22.8 33.3 426 2.  F 3 -15 16.8 7.59 17.3 52.1 68.6 22.8 33.3 426 2.  13.70 7.508 17.02 51.57 68.68 22.6 33.7 38.5 17 38.5 1.  4.81 0.540 1.18 3.67 1.13 0.12 0.54 54.4 0.	Mean				2.1	. 44	6.9	0.4	7.8	2.7	3.5	81	α
M         2         -21         10 7         7.28         15.9         49.0         67.3         21.8         32.4         335         1           M         2         -22         16.2         6.68         15.9         47.5         71.1         23.8         33.5         515         3           M         2         -19         11.8         7.74         16.9         51.0         65.9         21.8         33.5         453         1           F         2         -14         10.5         7.41         17.2         51.1         68.9         23.2         33.7         422         1           B         2         -12         16.0         7.64         16.6         49.1         64.3         21.7         33.8         422         1           B         2         -13         10.5         7.62         17.6         52.0         68.3         23.1         33.8         422.2         1           B         2         -13         16.68         49.95         67.63         22.57         33.38         424.3         31.3           B         2         13         16.68         49.95         67.63         22.6         32	Std Dev				2.4	.47	9.0	1.8	2.9	1.1	0.7	72.	0.58
M         2         -22         16.2         6.68         15.9         47.5         71.1         23.8         33.5         515         31.1           F         -19         11.8         7.74         16.9         51.0         65.9         21.8         33.5         515         3           F         2         -14         10.5         7.41         17.2         51.1         68.9         23.2         33.7         422         1           B         -12         16.0         7.64         16.6         49.1         64.3         21.7         33.8         422         1           F         2         -13         10.5         7.62         17.6         52.0         68.3         23.1         33.8         428.3         1           I         2         7.62         17.6         52.0         68.3         22.17         33.8         428.3         1           2         7         0.388         0.69         1.69         2.38         0.91         0.55         63.4         0           2         7         0.388         0.69         1.69         2.38         0.91         0.55         63.4         0           3<	9 <b>A</b> 0000	Σ	7	-21	0	. 2	5.	6	7	<del>-</del>	0	γ,	
N         2         -19         11.8         7.74         16.9         51.0         65.9         21.8         33.1         453         1           F         2         -14         10.5         7.41         17.2         51.1         68.9         23.2         33.7         422         1           B         2         -12         16.0         7.64         16.6         49.1         64.3         21.7         33.8         422         1           F         2         -13         10.5         7.62         17.6         52.0         68.3         23.1         33.8         428.3         1           A         3         -21         10.5         7.62         17.6         52.0         68.3         23.1         33.8         428.3         1           M         3         -21         18.7         6.73         15.9         47.2         70.1         22.7         32.4         92.4           M         3         -20         12.2         13.6         48.1         68.4         22.8         33.3         42.6         23.3           F         3         -15         18.0         7.59         17.3         52.2         67.9	9A0000	Σ	7	-22	9	9.	د	7.			, ~	~ <del>-</del>	
F         2         -14         10.5         7.41         17.2         51.1         68.9         23.2         33.7         422         1           3         F         2         -12         16.0         7.64         16.6         49.1         64.3         21.7         33.8         443         0           5         -12         16.0         7.64         16.6         49.1         64.3         21.7         33.8         443         0           12.6         7.5         7.62         17.6         52.0         68.3         23.1         33.8         422         1           2.74         0.384         0.69         1.69         2.38         0.91         0.55         63.4         0           M         3         -21         18.7         6.73         15.3         47.2         70.1         22.7         32.4         52.3         449         1           M         3         -20         12.2         7.03         16.0         48.1         68.6         22.8         33.3         42.6         2           F         3         -15         18.0         7.59         17.3         52.2         67.9         22.6	9A0004	Σ	7	-19	1.	7.	9		5.		 m	. ک ب	•
B         F         2         -12         16.0         7.64         16.6         49.1         64.3         21.7         33.8         372         0           5         -13         10.5         7.62         17.6         52.0         68.3         23.1         33.8         443         0           12.62         7.395         16.68         49.95         67.63         22.57         33.38         423.3         1           2.74         0.388         0.69         1.69         2.38         0.91         0.55         63.4         0           M         3         -21         18.7         6.73         15.3         47.2         70.1         22.7         32.4         523         449         1           M         3         -20         12.2         18.6         57.5         69.9         22.6         32.3         426         2         3         426         2         3         426         2         3         426         2         3         3         2         5         3         426         2         3         3         2         5         3         3         2         5         3         3         3         <	9 <b>A</b> 0003	بعر	2	-14	0	٠.	7.	H	80	ε,	س	$\sim$	•
F 2 -13 10.5 7.62 17.6 52.0 68.3 23.1 33.8 443 0.  12.62 7.395 16.68 49.95 67.63 22.57 33.38 423.3 1 2.74 0.388 0.69 1.69 2.38 0.91 0.55 63.4 0.  M 3 -21 18.7 6.73 15.3 47.2 70.1 22.7 32.4 523 3.3 449 1.  M 3 -20 12.2 7.03 16.0 48.1 68.4 22.8 33.3 426 2.	9 <b>A</b> 0006	Œų	5	-12	9	9.	9	9.	4.	7			
12.62	9 <b>A</b> 0006	נבי	7	-13		9.	7.	2.	&	Э.	ش	4	
2.74 0.388 0.69 1.69 2.38 0.91 0.55 63.4 0.  M 3 -21 18.7 6.73 15.3 47.2 70.1 22.7 32.4 523 3.  M 3 -20 12.2 7.03 16.0 48.1 68.4 22.8 33.3 426 2.  F 3 -14 9.0 7.59 17.3 52.1 68.6 22.8 33.2 510 1.  F 3 -15 18.0 7.69 17.3 52.2 67.9 22.5 33.1 417 2.  F 3 -12 16.8 7.79 17.6 52.3 67.2 22.6 33.7 385 1.  13.70 7.508 17.02 51.57 68.68 22.67 33.00 451.7 2.4 4.81 0.540 1.18 3.67 1.13 0.12 0.54 54.4 0.	_				2.6	.39	9.9	9.9	7.6	2.5	1	~	- }
M 3 -21 18.7 6.73 15.3 47.2 70.1 22.7 32.4 523 3.6  M 3 -19 7.5 8.22 18.6 57.5 69.9 22.6 32.3 449 1.  M 3 -20 12.2 7.03 16.0 48.1 68.4 22.8 33.3 426 2.  F 3 -14 9.0 7.59 17.3 52.1 68.6 22.8 33.2 510 1.  F 3 -15 18.0 7.69 17.3 52.2 67.9 22.5 33.1 417 2.  F 3 -12 16.8 7.79 17.6 52.3 67.2 22.6 33.7 385 1.  13.70 7.508 17.02 51.57 68.68 22.67 33.00 451.7 2.  4.81 0.540 1.18 3.67 1.13 0.12 0.54 54.4 0.	De				. 7	. 38	9.0	1.6	2.3	6.0	0.5	63.	0.99
M 3 -19 7.5 8.22 18.6 57.5 69.9 22.6 32.3 449 1.18 319 12.2 7.03 16.0 48.1 68.4 22.8 33.3 426 2.1   F 3 -14 9.0 7.59 17.3 52.1 68.6 22.8 33.2 510 1.1   F 3 -15 18.0 7.69 17.3 52.2 67.9 22.5 33.1 417 2.1   F 3 -12 16.8 7.79 17.6 52.3 67.2 22.6 33.7 385 1.1   13.70 7.508 17.02 51.57 68.68 22.67 33.00 451.7 2.4   4.81 0.540 1.18 3.67 1.13 0.12 0.54 54.4 0.	89A00002	Σ	т	$\sim$	ω		5.	7	Ç	^	~		
F 3 -20 12.2 7.03 16.0 48.1 68.4 22.8 33.3 426 2.1 F 3 -14 9.0 7.59 17.3 52.1 68.6 22.8 33.2 510 1.1 F 3 -15 18.0 7.69 17.3 52.2 67.9 22.5 33.1 417 2.1 F 3 -12 16.8 7.79 17.6 52.3 67.2 22.6 33.7 38.5 1.1 13.70 7.508 17.02 51.57 68.68 22.67 33.00 451.7 2.4 4.81 0.540 1.18 3.67 1.13 0.12 0.54 54.4 0.	89A00045	Σ	$\sim$	-	7.	. 2	φ.	7	6		, v	v 73	•
F 3 -14 9.0 7.59 17.3 52.1 68.6 22.8 33.2 510 1.1 F 3 -15 18.0 7.69 17.3 52.2 67.9 22.5 33.1 417 2.1 F 3 -12 16.8 7.79 17.6 52.3 67.2 22.6 33.7 385 1.1 13.70 7.508 17.02 51.57 68.68 22.67 33.00 451.7 2.4 4.81 0.540 1.18 3.67 1.13 0.12 0.54 54.4 0.	89A00052	Σ	æ	2	2.	0.	ξ.	8	8		· ~	• ^	•
F 3 -15 18.0 7.69 17.3 52.2 67.9 22.5 33.1 417 2.15 F 3 -12 16.8 7.79 17.6 52.3 67.2 22.6 33.7 385 1.13.70 7.508 17.02 51.57 68.68 22.67 33.00 451.7 2.10 4.81 0.540 1.18 3.67 1.13 0.12 0.54 54.4 0.	89A00025	Œ	m	$\overline{}$	9.	.5	7.	2.	8	2.	· ~		
F 3 -12 16.8 7.79 17.6 52.3 67.2 22.6 33.7 385 1. 13.70 7.508 17.02 51.57 68.68 22.67 33.00 451.7 2. 4.81 0.540 1.18 3.67 1.13 0.12 0.54 54.4 0.	89A00033	لت	~		Θ	9.	.'	2.	7.	. 2	· .	•	
Dev 13.70 7.508 17.02 51.57 68.68 22.67 33.00 451.7 2.44.81 0.540 1.18 3.67 1.13 0.12 0.54 54.4 0.	89 <b>A</b> 00064	נביו	m		9	. 7	7.	2.	7.	2.		$\infty$	
d Dev 4.81 0.540 1.18 3.67 1.13 0.12 0.54 54.4 0.					3.7	.50	7.0	1.5	8.6	2.6	\ ~	2.	- 1
	D D				8.	. 54	~.	9.	1.1	0.1	0	54.	0.83

Appendix H (cont.): HEMATOLOGY

4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	yex	sex Group	Бау	WBC	RBC	нсв	HCT	MCV	МСН	MCHC	PLT	RET
89A00018	Σ	4	-22		0.	4.	3	<u>,                                    </u>	ت.	ω	458	•
89A00048	Σ	4	-19	16.0	7.56	16.6	50.1	66.3	22.0	33.1	464	2.4
89A00056	Σ	4	-20	9.	Τ.	5.		9	7	2.	540	•
89A00020	Ĺ,	4	-14	•	٦.	7 .	$\sim$	S	<del>_</del> _	2.	462	•
89A00039	Ŀ	4	-15		5.	9	9	9	2.	~	434	
89 <b>A</b> 00071	Ŧ	4	-13	•	£.	9.	9	7	2.	•	867	•
Mean				.5	.31	2	0.		2.	-		3
Std Dev				2.63	0.688	1.00	3.36	7.(8	06.0	0.43	55.8	
89A00004	Σ	2	-21	<u>.</u>	6.	9	ნ		4.	ω.	338	7.7
89A00011	Σ	5	-22	0	٠.	7	0		<del>ب</del>	$\sim$	412	1.2
89A00046	Σ	5	-19	Э.	$\vec{}$ .	$\mathcal{S}$	$_{\infty}$	•	2 .	2.	480	0.7
89A00027	[±,	2	-14	12.6	7.52	18.2	54.2	72.1	24.2	33.6	382	1.2
89A00065	Ŀ	5	-12	9	$\circ$ .	9	ω		~	ج	4 30	1.0
89A00069	Œ	5	-13	-	9 .	9	0		2 .	ت	356	1.5
Mean				5.	.27	8	~	9.	-	.5	399.7	1.38
Std Dev				2.16	0.275	0.83	2.18	2.44	0.99	0.46	52.1	
89 <b>A</b> 00007	Σ	9	-21	•	4.	9	9.		2.	Ψ.	970	~· 
89A00050	Σ	9	-19	9.3	6.48	15.4	46.3	71.5	23.8	33.3	3.4.3	0.1
89A00051	Σ	9	-20	2.	6.	7.	4		2.	<u>ب</u>	362	0.7
89A00029	ī.,	9	-14	•	$\infty$	5.	9	•	2.	ب	445	6.0
89A00041	ſщ	9	-15	$\vec{-}$	٠.	9	9.		2.	$\frac{\infty}{\cdot}$	402	/ )
89A00061	Ĺ	9	-12	•	9 .	7.	2.		2.	<u>~</u>	- T	4.
Mean				4.	L.	16.53			22.68	33.30	194,0	1.17
Std Dev				2.14	0.554	1.0	3.24	6.	•	0.20	1.6.7	

				Appendix	dix H	(cont.):		HEMATOLOGY				
Animal Number	Sex	Group	Бау	WBC	RBC	нсв	нст	MCV	МСН	мснс	PLT	RET
89800019	Σ	7	0	_	5	5			~	~	4.88	2 1
89A00043	Σ	, ,	-19	13.9	6.36	15.0	44.8	70.4	$\frac{2}{23.6}$	33.5	496	1.2
89A00054	Σ	7	~	-	6.	4				2	2. 2. 3.	1.4
89A00030	ĹĿ	7	-	9.	4.	$_{8}$			-	ω.	327	1.5
89A00035	Ĺ	7	~	٦.	٦.		0		₩.	<u>~</u>	354	1.5
89A00070	Ŀų	7	,—+	•	6.	9			Э.	₹.	395	0.7
Mean				7	.12	6.2	13.	7.	1 .	3.	1~	4
Std Dev				$\infty$	0.693	1.42	4.16	2	1.11	0.73	63.4	0.46
89 <b>A</b> 00001	Σ	œ	-21	7.7		5	9			$\sim$	346	0.7
89A00013	Σ	œ	-22	17.7	4.	7	0		2.	$\sim$	449	6.1
89A00053	Σ	8	-20	10.1	6.34	14.7	43.7	68.89	23.2	33.6	505	1.1
89A00040	ĹĿij	80	-15	17.0	ζ.	5	5.		<u>ب</u>	4	62.2	1.0
89A00062	Ĺ	∞	-12	12.3	S.	9	0		2.	$\sim$	393	2.5
89A00068	íu	8	-13	14.0	$\sim$	9	0		2.	$\sim$	352	1.0
Mean				-	0	0	7		7.	3.	444.5	
Std Dev				3.90	0.491	96.0	3.00	1.36	0	$\circ$	105.9	0.69
89 <b>A</b> 00005	Σ	9	-21		0.	5.	Ĺ		7	~	347	7.1
89A00049	Σ	6	-19	•	ζ.	7	$\sim$	•	$\sim$	<u>ب</u>	467	7.5
89A00055	Σ	6	-20	$\sim$	7.62	17.5	52.2	68.5	23.0	33.5	588	1
89A00026	Ŀ	6	-14	•	9.	9	9	•		<u>~</u>	518	l . •
89A00037	대	6	-15	2.	0.	7 .	0		4	~ ∵	545	١. /
89 <b>A</b> 00060	Ĺ	J,	-12	2.	0.	9	9		$\sim$	<u>ب</u>	438	1.1
Mean				J.	\mathref{eq:10.000}	8.	4.	68.77	22.98	33.43	4 11, 7	1.51
Std Dev				2.40	0.344	0.71	2.13	•	6.	0.28	96	0.35
												1

ppendix H (cont.):	HEMATOLOGY
	(cont.):
	ppendix H

				Appe	Appendix H	H (cont.):	: <del>`</del>	HEMATOLOGY	rogx	!			
Animal Number	Sex	Sex Group Day	Day	SEG	BAN	EOS	BAS	LYM	MON	ATL	NRBC	PT	APPT
89A00006	Σ	10	-21	97	0	2	0	17	4	1	0	Ľ.	LN
89A00044	Σ	10	-19	53	0	5	0	35	9	_	0	NT	LN
9A00057	Σ	10	-20	19	0	0	0	25	7	,4	0	LN	LN
89A00034	نتا	10	-15	91	0	0	0	2.1	2		0	LN	LN
89400059	[±,	10	-12	57	0	9	0	33	4	0	0	r'z	Z T.Z
89A00067	Ĺ	10	-13	71	0	H	0	25	m	0	0	, L	T Z
Mean				66.7	0.0	2.3	0.0	26.0	4.3	0.7	0.0		ı
Std Dev				9.7	0.0	2.6	0.0	6.9	1.9	0.5	0.0	ı	1

APPT FYZZZZZ 7 7 7 7 7 Z £ £ £ £ £ £ 1 1 ı FINATION  $_{\rm PT}$ 222222 0.3 0.2 NREC 0.6 200000 00000 m 0 0 0 0 1.8 1.7 0.8 2.7 2.7 ATL 1 1 2 0 0 2 1 1 3.7 4.2 4.5 HEMATOLOGY MON 7 2 2 4 6 7 962161 5 4 4 7 0 0 22.8 3.7 24.7 19.5 LYM20 27 25 25 25 17 23 29 19 16 16 18 18 16 14 37 0.0 0.0 0.0 BAS (cont.): 00000 00000 00000 7. EOS 00 821414 314124 H 0.2 0.3 0.2 Appendix BAN 00100 00000 0 - 0 0 0 69.0 67.5 72.5 SEG 68 57 72 68 68 78 62 73 73 73 72 67 -22 -19 -20 Day -14 -15 -13 -21 -22 -19 -14 -12 -13 -21 -19 -20 -14 -15 Group 22222 m m m m m----Sex μημαζα ΣΣΣωμω ΣΣΣωωω 89**A**00012 89**A**00042 89A00052 89A00025 89A00033 89A00058 89A00022 89A00038 89A00072 89A00009 89A00045 89A00003 89A00047 89A00031 89A00063 89A00066 89A00002 89A00064 Animal Number Std Dev Std Dev Std Dev Mean Mean

HEMATOLOGY

(cont.):

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Appendix

AFPT Z Z Z Z z F Ë ı 1 Ë z z z PTT Z Z Z Z Ę Z Z 1 1 LZ z z ļ 0.0 NRBC 0.5 0.0 0 0 0 0 0 0 000000 000000 1.8 1.3 2.5 2.6 ATL 1 0 0 5 70  $\circ$ 1 2 2 0 0 4 2.8 3.2 3.5 MON 732 ~ 0 2222 4 6 2 2 2 3 29.8 29.7 12.7 27.8 LYM 18 35 27 37 31 31 26 28 28 37 20 37 40 25 29 8 32 0.2 0.0 0.0 BAS 00-000 00000 000000 1.7 1.3 1.7 EOS 135301 2 0 0 1 - ~ 12023 0.0 0.0 0.7 0.8 BAN 00000 000000 0000 63.5 63.8 6.2 SEG 64 49 99 85 62 7.0 62 61 57 Day -22 -19 -20 -14 -15 -13 -19 -19 -20 -14 -14 -12 -13 Group 22222 99999 4 4444 Sex ΣΣΣωωω ΣΣΣιμι ΣΣΣωμω 89A00039 89A00071 89A00065 89A00069 89A00018 89A00048 89A00056 89A00020 89A00046 89A00027 89A00050 89A00051 89A00029 89A00004 89A00007 89A00041 89A00011 89A00061 Mean Std Dev Animal Number Std Dev Std Dev Mean Mean

				Appendix	H XIDU	( : conr : )		nerrionos	1007				
Animal	Sex	Group	Бау	SEG	BAN	EOS	BAS	I.YM	MOM	ATL	NRBC	T.A	APPT
1			(		3			7	α	ď	C	ī.	Ę
9 <b>A</b> 0001	Σ	٢	$\sim$	θų	0	zi.	<b>-</b>	o . → (	၁ (	7 (	) C		. E.
9A0004	Σ	7	_	7.0	<b>۔۔،</b>	9	9	2.1	7	<b>)</b>	<u>ن</u> د	<u>-</u> :	Z :
ONOOF	Σ	7	0	61		~	ာ	3.5	~	0	o	i Z	Z
	: :	,	, ,	· ~		<b>پ</b> ر	D	25	2	S	0	ĽZ	Y.Z
240000	<b>.</b> :	٠, ٦	-	ند ۱۰ ند ۵	: <	: 4	0	01	1.	<b>در</b> .	0	N.L	ĘZ
89 <b>A</b> 00035 89 <b>A</b> 00070	<u>. 14</u>	7	-13	76		0	0	22	2	0	0	Z.Z.	LN
				1	- (		( -	.			١.	,	i
Mean Std Dev				7.4	0.5	2.3	0.0	6.2	2.8	2.5	0.0	1	í
			:	,	-	r	<		y	~	0	EZ	L
89 <b>A</b> 00001		œ	-21	55	-	7	<b>)</b>		<b>5</b> (	7 (	1 (		Ę.
89A00013		ထ	-27	64	0	5	0		<b>~</b> ) i	n (	<b>)</b> (	- F	1 5
89400053		ဆ	-20	72	2	4	0		1	<b>&gt;</b>	) ·	 Z	7 27
89A00040		э	- 15	78	~-1	0	0		m	_	o ·	i i	2 :
89A00062		80	-12	67	0	0	0	28	5	0	<b>C</b>	z	z
89A00068	ĹL.	80	-13	89	0	0	0		m	m		i Z	Z
, ()				6.7.3	0.7	1 .		25.5	3.5	1.7	0.5	1	ı
Std Dev				1.7	θ.0	1.6	0.0	5.	•	•	•	ι	ı
	:	c		 G	Ξ	^	O		2	5	Ö	Į.Z	ž
AAOOOO	Ξ	U (	4 ; 4 ?		; -				٦.	4	ث	IN	î.2
9 <b>A</b> 0004	Σ	5	رد <u>۱</u> -	٠,٠	⊶ (	<b>-</b> (	> <		) (	۰, ۲۰	) C	į. Z	17
9 <b>A</b> 0005	Σ	S	-20	/ 1	D	<b>&gt;</b> •	<b>)</b>		<b>⊣</b> ∪	n ر	o (1	1.17	<u>-</u> Z
9 <b>A</b> 0002	<u>'</u>	5	- 1 4	8/	0		) ·		n v	n .	4 0	- <u>-</u>	
9A0003	ĺΞ,	6	-15	57	<b>-</b>	0	0	32	ه ۵	ი -	) ·	- : - :	
89A00060	'n	σι	-12	16	0	. 1	0		7	<b>→</b>	-	z	
Mean				1.89	0.2	1.0	0.0	23.2	3.5	3.5	9.0		!
Std Dev				8.0	•	•	•	•	•	•	٠		

Appendix H (cont.): HEMATOLOGY

Animal	Sex	Sex Group Day	Day	WBC	RBC	нсв	HCT	MCV	МСН	МСНС	PLT	KET
TECHNICAL IN												
900000468	Σ	10	7-	6.1	7.72	17.3	51.7	67.0	22.4	33.5	419	1.4
89400044	Σ	0	1	13.7	6.91	16.0	47.3	69.2	23.2	33.5	342	1.1
89400057	Σ :	2	۲-	7.5	7.61	17.2	51.6	67.8	22.6	33.3	257	9.0
8940034	<u>.</u>	0	٠, ٢	13.3	7.75	17.6	52.1	67.2	22.7	33.8	428	1.3
89400059	ı Çe	2 -	-7	13.8	6.97	15.2	45.2	64.8	21.8	33.6	282	i. 3
69A00067	بتاي	10	<u>-</u> 7	10.5	1.17	17.8	53.1	68.3	22.9	33.5	326	1.4
Mean				10.82	7.455	16.85	50.25	67.38	22.60	33.53	342.3	1.18
Std Dev				3.37	0.403	1.02	3.07	1.49	0.48	0.16	6.69	0.31

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Бау	WBC	RBC	нсв	HCT	MCV	MCH	МСНС	PLT	RET
89 <b>A</b> 00012	Σ	-	۲-	. /.	∞.		0	4.		ω,	$\infty$	
89A00042	Σ	-	1-	0	0.	9	7.	ω	2.		3	•
89A00058	Σ	Н	1-	8.0	98.9	15.5	45.8	8.99	22.6	33.8	303	1.3
89A00022	Ē	-	1-	ij	2.	5.	7.	5.	<u>,</u>	ж	_	•
89A00038	Ŀ	_	1-	5.	7.	6.	ω	2.	4.	ب	7	٠
89A00072	Ŀ	7	L-	Ξ.	. 2	8.	5.	9	2.	2.	$\infty$	•
Mean				2.5	.32	6.4	. 2	7.3	5.	4.	0	1
Std Dev				3.53	0.585	0.97	3.23	2.73	1.04	0.37	86	1.25
89 <b>A</b> 00003	Σ	2	1-		9.	7.		7.	2.	ж.	7	
89A00009	Σ	2	1	1.	4.	7.	_	9.	4.	4.	5	1.9
89A00047	Σ	2	1-	9.6	7.90	17.3	51.6	65.3	21.9	33.5	387	•
89A00031	ĹĿı	2	1-7	₩.	7.	4	4.	8	~	ж.	$\boldsymbol{\omega}$	
89A00063	ĹĿı	7	-7	٠	.5	9	ω	۳.	Ξ,	٣.	6	0.7
89A00066	Ĺ	2	1-	2.	$\infty$	7.	3.	7.	2.	3.	9	•
Mean				0.8	.48	6.8	0.	6.8	4.	9	0	9.
Std Dev				2.24	0.519	1.18	3.26	1.93	0.86	0.64	7.67	0.59
89 <b>A</b> 00002	Σ	m	7-		7	9	6	. 6	ж	ω.		•
89A00045	Σ	m	-7	9.2	7.32	16.8	49.9	68.2	23.0	33.7	471	2.2
89A00052	Σ	3	1	0	£.	4	2.	7.	2.	ب	7	
89A00025	Ŀ	3	1-	0	S	7	1.	8	ж	₩.	٦١	
89A00033	بعا	3	1-1	2	4 .	9	0	7.	2.	2.	<b>₽</b>	
89 <b>A</b> 00064	ĹĿ	Э	1-1	•	0.	9		9	ج	4	4	
Mean				٣.	.12	.2	4.	6.	8	9	4	
Std Dev				1.13	0.431	1.03	3.27	1.00	0.33		αe.α	?

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Appendix

 $1.83 \\ 0.69$ 76.0 1.55 0.78 2.12 1.8 0.8 1.2 1.4 1.3 1.9 2.3 2.9 1.6 0.1 KET 358.2 104.0 324.3 370.8 66.3 269 353 372 372 253 418 423 365 415 156 458 2299 328 438 376 326 33.13 0.72 33.55 33.53 0.35 33.7 33.2 33.8 31.8 33.3 33..9 33.3 34.0 33.2 33.2 33.3 33.9 33.7 33.7 32.8 33.5 MCHC 22.08 1.01 22.83 0.84 22.62 0.65 23.8 21.8 21.8 20.7 22.3 22.3 23.9 22.1 22.6 23.7 22.9 21.8 22.1 23.8 22.2 22.5 22.5 22.5 22.9 66.60 2.09 68.00 2.38 67.45 1.88 70.4 65.7 64.5 65.2 66.8 70.4 66.4 66.7 71.4 67.7 65.4 70.4 66.0 68.6 66.4 67.9 47.33 48.70 49.78 1.99 45.1 49.1 41.4 51.0 52.8 44.6 54.3 42.4 54.5 46.8 47.4 49.3 50.7 47.2 48.2 50.5 HCT 15.67 1.2916.35 1.56 16.70 0.76 15.2 16.3 14.0 16.2 17.6 18.4 15.6 14.4 18.1 15.8 16.7 17.1 15.9 15.8 16.9 HGB 7.115 7.383 0.501 7.153 6.40 7.48 6.42 7.82 7.91 6.66 7.54 7.20 7.15 7.71 6.36 7.64 6.91 7.61 RBC 11.68 0.98 11.60 3.09 11.05 1.61 111.3 111.6 111.8 13.4 10.4 10.5 10.6 8.8 10.6 12.5 8.9 112.2 111.7 117.3 10.3 WBC Day Group 000000 444444 20202 Sex ΣΣΣωμω ΣΣΣμμμ ΣΣΣωωω 89**A**00020 89**A**00039 89A00065 89A00069 89**A**000050 89**A**000051 89A00041 89A00061 89A00046 89A00018 89A00048 89A00056 89A00004 89A00011 89A00027 89A00007 89A00029 Mean Std Dev 89A00071 Animal Number Std Dev Std Dev Mean

Appendix H (cont.): HEMATOLOGY

Sex Group Day Web. Risk. Hub. Hull McV McH McH. Firth Risk Critical Day Web. Risk. Hub. Hull McV McH McH. Firth Risk. A 1 -7 15.2 7.51 16.8 49.3 65.7 22.9 33.5 353 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								E 51					
M 7 -7 15.2 7.51 16.8 49.3 65.7 22.4 34.1 353 1.2 0.6 6.9 7.46 17.1 51.1 68.5 22.9 33.5 35.5 0.6 0.6 0.5 11.1 1.2 7.95 17.7 52.6 66.2 22.3 33.7 34.6 0.5 0.5 0.6 11.1 1.2 7.36 17.7 52.6 66.2 22.3 33.7 34.6 1.0 0.5 17.7 51.6 70.1 23.8 33.9 34.6 4.8 1.0 0.5 17.2 51.6 70.1 23.8 33.9 34.6 4.8 1.0 0.5 17.2 51.6 70.1 23.8 33.9 34.6 4.8 1.0 0.5 17.2 51.6 70.1 23.8 33.9 34.6 4.8 1.0 0.5 17.2 51.6 68.7 22.5 7 33.7 348.8 1.0 0.5 17.2 51.6 68.7 22.5 7 33.7 348.8 1.0 0.5 17.2 51.2 51.2 51.2 51.2 51.2 51.2 51.2 51	Number	Sex	dno.ro	пау	WBC	KBC	HGB	HC1	₩ ( ^	AC H	MCHC	FET	RET
M         7         −7         6.9         7.46         17.1         51.1         68.5         22.9         33.5         35.3         0.5           F         7         −7         −7         11.1         5.52         13.9         40.4         6.6.0         22.3         33.7         346         0.5           F         7         −7         10.2         7.36         17.5         51.6         70.1         23.8         33.9         346         4.8           F         7         −7         13.3         6.93         15.7         47.6         (68.7         22.7         33.0         33.2         1.0           N         8         −7         13.3         6.93         15.7         47.6         (68.7         22.7         33.0         342         1.0           N         8         −7         12.3         1.4         47.6         6.8         22.7         33.0         342         1.0           N         8         −7         12.3         1.4         4.4         2.90         0.82         0.49         10.3         11.6           F         8         −7         12.3         1.4         4.0         6.8	89 <b>A</b> 00019	Σ	7	۲-	5.	.5	9	9.	5.	2	4	5	•
M         7         −7         11.1         6.52         13.9         40.4         62.0         21.3         34.4         346         0.5           F         7         −7         10.2         7.95         17.7         52.6         66.2         22.3         33.7         346         0.5           F         7         −7         13.3         6.93         17.5         54.6         66.2         22.3         33.7         346         0.5           10.98         7.288         16.45         48.77         66.87         22.57         33.0         346         1.0           10.98         7.288         16.45         48.77         66.87         22.57         33.0         346         1.0           10.98         7.288         16.45         48.77         66.87         22.57         33.0         348.8         1.0           10.99         7.79         17.9         17.9         66.88         22.7         33.0         348.8         1.0           10.5         7.79         17.0         51.6         66.2         22.9         33.6         37.9         34.8         37.9         34.8         37.9         37.9         37.9         37.9	89A00043	Σ	7	1-	9	4.	7.		8	2.	<u>ر</u>	5	•
F 7 -7 10.2 7.95 17.7 52.6 66.2 22.3 33.7 363 1.5  F 7 -7 10.2 7.36 17.5 51.6 70.1 23.8 33.9 346 4.8  I 10.98 7.288 16.45 48.77 66.87 22.7 33.0 34.8 1.6  I 10.98 7.288 16.45 48.77 66.87 22.57 33.77 348.8 1.6  M 8 -7 7.1 7.82 17.2 50.5 64.6 22.0 34.1 285 0.5  M 8 -7 7.1 7.82 17.2 50.5 64.6 22.0 34.1 285 0.5  F 8 -7 10.5 7.93 17.9 53.2 67.1 22.6 33.6 53.7 11.0  F 8 -7 10.5 7.93 17.9 53.2 67.1 22.6 33.6 576 1.7  F 8 -7 10.5 7.79 17.0 51.6 66.2 21.8 33.0 576 1.7  I 11.17 7.392 16.52 49.50 67.03 22.38 33.37 403.0 1.0  M 9 -7 12.6 7.64 17.3 52.0 68.1 22.6 33.3 35.8 6.0  M 9 -7 12.6 7.64 17.3 52.0 68.1 22.6 33.3 35.8 6.0  F 9 -7 12.7 7.35 17.0 51.8 65.1 22.8 33.3 35.8 6.0  I 12.70 7.245 16.8 65.1 21.2 24.3 33.8 4.3 1.5  I 22.70 7.245 16.8 20.9 20.3 23.3 33.5 40.4 1.5  I 27.0 7.245 16.67 49.70 68.70 23.03 33.53 40.4.7 1.5  I 27.0 7.245 16.67 49.70 68.70 23.03 33.53 40.4.7 1.5	89A00054	Σ	7	-7		3.	·χ,	C	2.		4.	◁	•
F 7 -7 9.2 7.36 17.5 51.6 70.1 23.8 33.9 446 4.8 10.9 13.3 6.93 15.7 47.6 68.7 22.7 33.77 348.8 1.6 1.0 10.98 7.288 16.45 48.77 66.87 22.57 33.77 348.8 1.6 2.95 0.499 1.43 4.47 2.90 0.82 0.49 10.3 1.6 2.95 0.499 1.43 4.47 2.90 0.82 0.49 10.3 1.6 2.95 0.499 1.41 4.20 68.0 22.9 33.6 51.7 1.1 1.6 4 6.96 15.8 47.9 68.8 22.7 33.6 51.7 1.1 1.1 1.1 7.39 17.9 53.2 67.1 22.6 33.6 51.7 1.1 1.1 1.1 7.39 17.9 53.2 67.1 22.6 33.6 51.7 1.1 1.1 1.1 7.39 17.1 51.8 67.5 22.3 33.0 576 17.7 11.1 4.1 4.20 68.0 22.9 33.6 51.7 1.1 1.1 4.1 51.8 67.5 22.3 33.0 576 17.7 1.1 51.8 67.5 22.3 33.0 576 17.7 11.1 51.8 67.5 22.3 33.0 269 0.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	89A00030	'n	7	1-	0	6.	7.	2	9	2.	~	S	
F         7         -7         13.3         6.93         15.7         47.6         68.7         22.7         33.0         332         1.0           10.98         7.288         16.45         48.77         66.87         22.57         33.77         348.8         1.0           2.95         0.498         1.43         4.47         66.87         22.57         33.77         348.8         1.0           8         -7         12.3         7.98         17.2         50.5         64.6         22.0         34.1         285         0.5           8         -7         12.3         7.93         17.1         47.9         68.8         22.7         33.6         51.7         11.7           9         -7         10.5         7.79         17.0         51.6         66.2         21.8         32.9         37.9         11.7           9         -7         10.5         7.79         17.0         51.6         66.2         22.2         33.6         57.9         10.8           1         F         8         -7         11.4         7.68         17.1         51.8         67.5         22.3         33.0         26.9         0.8	89A00035	Ŀ	7	-7	6	نب	7.		0	<u>~</u>	$\approx$	~	
M 8 -7 7.1 7.82 16.45 48.77 66.87 22.57 33.77 348.8 11.6  Z.95 0.499 1.43 4.47 2.90 0.82 0.49 10.3 1.6  M 8 -7 7.1 7.82 17.2 50.5 64.6 22.0 34.1 285 0.5  M 8 -7 12.3 7.93 17.9 53.2 64.6 22.0 34.1 285 0.5  F 8 -7 16.4 6.96 15.8 47.9 68.0 22.9 33.6 510  F 8 -7 10.5 7.79 17.0 51.6 66.2 21.8 32.9 379 17.2  II.17 7.392 16.52 49.50 67.03 22.38 33.7 403.0 1.0  3.14 0.692 1.36 4.08 1.48 0.43 0.48 122.9 0.4  M 9 -7 12.6 7.64 17.3 52.0 68.1 22.6 33.3 35.8 2.77  M 9 -7 12.6 7.64 17.3 52.0 68.1 22.6 33.3 35.8 2.77  F 9 -7 12.6 7.64 17.3 52.0 68.1 22.6 33.3 35.8 2.77  II.17 7.392 16.52 49.50 67.03 22.38 33.3 464 0.8  M 9 -7 12.6 7.64 17.3 52.0 68.1 22.6 33.3 35.8 2.77  F 9 -7 12.70 7.245 16.8 51.8 65.1 21.1 32.4 35.6 0.9  F 9 -7 12.9 7.20 17.1 50.1 71.2 24.3 34.1 587 7.0  II.2.70 7.245 16.67 49.70 68.70 23.03 33.53 409.4 1.5  III.70 7.245 16.67 49.70 68.70 23.03 33.53 409.4 1.5  III.71 7.392 16.67 2.90 22.5 1.11 0.69 111.0 0.99	89 <b>A</b> 00070	伍	7	1-1	3.	ō.	5.	7.	æ	2.	~. ~	$\sim$	
2.95 0.498 1.43 4.47 2.90 0.82 0.499 10.3 1.6  M 8 -7 7.1 7.82 17.2 50.5 64.6 22.0 34.1 285 0.5  M 8 -7 12.3 7.93 17.9 53.2 67.1 22.6 33.6 517 1.1  F 8 -7 16.4 6.96 15.8 47.9 68.8 22.7 33.6 577 1.1  F 8 -7 10.5 7.79 17.0 51.6 66.2 21.8 32.9 379 1.2  F 8 -7 11.4 7.68 17.1 51.8 67.5 22.3 33.0 269 0.8  11.17 7.392 16.52 49.50 67.03 22.38 33.37 403.0 1.0  M 9 -7 12.6 7.64 17.3 52.0 68.1 22.6 33.3 358 2.7  M 9 -7 15.9 6.30 14.7 44.1 70.0 23.3 33.3 464 0.8  K 9 -7 15.9 6.30 14.7 44.1 70.0 23.3 33.3 464 0.8  K 9 -7 15.9 6.30 14.7 50.1 71.2 22.6 33.3 35.9 60.9  F 9 -7 12.2 7.03 17.1 50.6 70.3 23.3 33.3 464 0.8  K 9 -7 12.2 7.03 17.1 50.6 70.3 23.3 33.3 41.1 55.7 7.35 32.6 0.9  E 9 -7 12.9 7.20 17.1 50.6 70.3 23.3 33.8 43.3 1.5  E 9 -7 12.9 7.20 17.1 50.6 70.3 23.8 33.8 43.3 1.5  12.70 7.245 16.67 49.70 68.70 23.03 33.53 409.2 1.55  12.70 7.245 16.67 49.70 68.70 23.03 33.53 409.2 1.55  11.10 0.99	Mean				0.9	.28	6.4	8.7	6.8	2.5	3.7	48.	.
M         8         -7         7.1         7.82         17.2         50.5         64.6         22.0         34.1         285         0.0           M         8         -7         12.3         7.93         17.9         53.2         67.1         22.6         33.6         517         1.0           F         8         -7         16.4         6.96         15.8         47.9         68.0         22.9         33.6         517         1.1           F         8         -7         10.5         7.79         17.0         51.6         66.2         21.8         32.9         37.9         17.7           F         8         -7         11.4         7.68         17.1         51.8         67.5         22.3         33.0         269         0.8           I         10.5         7.79         17.1         51.8         67.5         22.3         33.0         269         0.8           I         11.4         7.88         17.1         51.8         67.5         22.3         33.0         269         0.8           3         4         0.692         1.36         4.08         1.748         0.43         0.43         0.74 <th>Q</th> <th></th> <th></th> <th></th> <th>2.9</th> <th>. 49</th> <th>1.4</th> <th>4.4</th> <th>2.9</th> <th>0.8</th> <th>0.4</th> <th>10.</th> <th>•</th>	Q				2.9	. 49	1.4	4.4	2.9	0.8	0.4	10.	•
M         8         -7         12.3         7.93         17.9         53.2         67.1         22.6         33.6         39.2         1.0           F         8         -7         9.3         6.17         14.1         42.0         68.0         22.9         33.6         51.7         11.1           F         8         -7         10.5         7.79         17.0         51.6         66.2         21.8         32.9         37.9         17.7           F         8         -7         11.4         7.68         17.1         51.8         67.5         22.3         33.0         55.6         1.7           I         10.5         7.79         17.1         51.8         67.5         22.3         33.9         57.6         1.7           I         11.17         7.392         16.52         49.50         67.03         22.38         33.37         403.0         0.8           M         9         -7         12.6         7.64         17.3         52.0         68.1         22.3         33.3         35.8         2.7           M         9         -7         15.9         14.7         44.1         70.0         23.3         33.3 </td <th>9<b>A</b>0000</th> <td>Σ</td> <td>30</td> <td>-7</td> <td></td> <td>8</td> <td>7</td> <td>0</td> <td>4</td> <td>2.</td> <td>4.</td> <td><math>\infty</math></td> <td></td>	9 <b>A</b> 0000	Σ	30	-7		8	7	0	4	2.	4.	$\infty$	
M         8         -7         9.3         6.17         14.1         42.0         68.0         22.9         33.6         517         1.1           F         8         -7         16.4         6.96         15.8         47.9         68.8         22.7         33.0         576         1.7           F         8         -7         10.5         7.79         17.0         51.6         66.2         22.18         32.9         379         1.2           F         9         -7         11.4         7.392         16.52         49.50         67.03         22.38         33.37         403.0         1.0           M         9         -7         12.6         7.64         17.3         52.0         68.1         22.3         33.3         464         0.8           M         9         -7         15.9         6.30         14.7         44.1         70.0         23.3         33.3         3.58         2.7           M         9         -7         15.9         6.30         14.7         44.1         70.0         23.3         33.3         3.58         2.7           F         9         -7         15.9         16.8	9 <b>A</b> 0001	Σ	80	1-	2.	6.	7.	$\overset{\sim}{\sim}$	7.	2.	$\overset{\cdot}{\sim}$	2	
F 8 -7 16.4 6.96 15.8 47.9 68.8 22.7 33.0 576 1.7 10.5 7.79 17.0 51.6 66.2 21.8 32.9 379 1.2 F 8 -7 10.5 7.79 17.0 51.6 66.2 21.8 32.9 379 1.2 1.2 11.1 7.392 16.52 49.50 67.03 22.38 33.37 403.0 1.0 3.14 0.692 1.36 4.08 1.48 0.43 0.48 122.9 0.4	9 <b>A</b> 0005	Σ	∞	1	9.	7	4.	2	ω	2.	ج		
F 8 -7 10.5 7.79 17.0 51.6 66.2 21.8 32.9 379 17.2    F 9 -7 11.4 7.68 17.1 51.8 67.5 22.3 33.0 269 0.8    11.17 7.392 16.52 49.50 67.03 22.38 33.37 403.0 17.0    3.14 0.692 1.36 4.08 1.48 0.43 0.48 122.9 0.4    M 9 -7 12.6 7.64 17.3 52.0 68.1 22.6 33.3 358 2.7    M 9 -7 15.9 6.30 14.7 44.1 70.0 23.3 33.3 464 0.8    F 9 -7 15.7 7.35 17.0 49.6 67.5 23.1 34.3 257 0.5    F 9 -7 12.2 7.03 17.1 50.1 71.2 24.3 34.1 587 2.6    F 9 -7 12.2 7.03 17.1 50.6 70.3 23.8 33.8 433 1.5    12.70 7.245 16.67 49.70 68.70 23.03 33.53 409.2 1.5    3.26 0.567 0.98 2.90 2.25 1.11 0.69 115.0 0.9	9A0004	Гч	80	1	9	6.	5.	7.	α	2.	<u>ب</u>	7	•
F 8 -7 11.4 7.392 16.52 49.50 67.03 22.38 33.37 403.0 1.0  11.17 7.392 16.52 49.50 67.03 22.38 33.37 403.0 1.0  3.14 0.692 1.36 4.08 1.48 0.43 0.48 122.9 0.4  M 9 -7 12.6 7.64 17.3 52.0 68.1 22.6 33.3 35.8 2.7  M 9 -7 15.9 6.30 14.7 44.1 70.0 23.3 33.3 464 0.8  F 9 -7 15.7 7.35 17.0 49.6 67.5 23.1 34.3 257 0.5  F 9 -7 12.2 7.03 17.1 50.1 71.2 24.3 34.1 587 2.6  F 9 -7 12.9 7.20 17.1 50.6 70.3 23.8 33.8 433 1.5  12.70 7.245 16.67 49.70 68.70 23.03 33.53 409.2 1.50 33.26 0.567 0.98 2.90 2.25 1.11 0.69 115.0 0.99	9 <b>A</b> 0006	Ŀ	8	1	0	ί.	7.	;	9	<u>.</u>	2.		•
M 9 -7 12.6 7.64 17.3 52.0 68.1 22.38 33.37 403.0 1.0  M 9 -7 12.6 7.64 17.3 52.0 68.1 22.6 33.3 35.8 2.7  M 9 -7 15.9 6.30 14.7 44.1 70.0 23.3 33.3 464 0.8  F 9 -7 15.7 7.35 17.0 49.6 67.5 23.1 34.3 257 0.5  F 9 -7 12.2 7.03 17.1 50.1 71.2 24.3 34.1 587 2.6  F 9 -7 12.2 7.03 17.1 50.6 70.3 23.8 33.8 43.1 15.8  F 9 -7 12.2 7.03 17.1 50.1 71.2 24.3 34.1 587 2.6  T2.70 7.245 16.67 49.70 68.70 23.03 33.53 409.2 1.55 3.6 0.9  12.70 7.245 16.67 49.70 68.70 23.03 33.53 409.2 1.55 3.6 0.99	9 <b>A</b> 0006	نعا	89	1	_	9.	7.	<u>.</u>	7.	5	∽	9	
3.14 0.692 1.36 4.08 1.48 0.43 0.48 122.9 0.4  M 9 -7 12.6 7.64 17.3 52.0 68.1 22.6 33.3 358 2.7  M 9 -7 15.9 6.30 14.7 44.1 70.0 23.3 33.3 464 0.8  M 9 -7 15.7 7.35 17.0 49.6 67.5 23.1 34.3 257 0.5  F 9 -7 15.2 7.03 17.1 50.1 71.2 24.3 34.1 587 2.6  F 9 -7 12.2 7.03 17.1 50.1 71.2 24.3 34.1 587 2.6  F 9 -7 12.2 7.03 17.1 50.6 70.3 23.8 33.8 433 1.5  F 9 -7 0.245 16.67 49.70 68.70 23.03 33.53 409.2 1.5  3.26 0.567 0.98 2.90 2.25 1.11 0.69 114.0 0.9	Mean				1.1	.39	6.5	9.5	7.0	2.3	3.3	03.	0.
M       9       -7       12.6       7.64       17.3       52.0       68.1       22.6       33.3       358       2.         M       9       -7       15.9       6.30       14.7       44.1       70.0       23.3       33.3       464       0.         M       9       -7       15.7       7.35       17.0       49.6       67.5       23.1       34.3       257       0.         F       9       -7       6.9       7.95       16.8       51.8       65.1       21.1       32.4       35.6       0.         F       9       -7       12.2       7.03       17.1       50.1       71.2       24.3       34.1       587       2.         F       9       -7       12.9       7.20       17.1       50.6       70.3       23.8       33.8       433       1.         F       9       -7       12.9       7.245       16.67       49.70       68.70       23.03       33.53       409.2       1.         8       3.26       0.567       0.98       2.90       2.25       1.11       0.69       118.0       0.0	De				3.1	69.	1.3	4.0	1.4	0.4	0.4	22.	٠ 4
M       9       -7       15.9       6.30       14.7       44.1       70.0       23.3       33.3       464       0.         M       9       -7       15.7       7.35       17.0       49.6       67.5       23.1       34.3       257       0.         F       9       -7       6.9       7.95       16.8       51.8       65.1       21.1       32.4       35.6       0.         F       9       -7       12.2       7.03       17.1       50.1       70.3       23.8       33.8       433       1.         F       9       -7       12.9       7.245       16.67       49.70       68.70       23.03       33.53       409.2       1.         12.70       7.245       16.67       49.70       68.70       23.03       33.53       409.2       1.         3.26       0.567       0.98       2.90       2.25       1.11       0.69       113.0       0.	89A00005	Σ	6	1	2.	9.	7.	2	ω	2.	ω.	3	
M       9       -7       15.7       7.35       17.0       49.6       67.5       23.1       34.3       257       0.         F       9       -7       6.9       7.95       16.8       51.8       65.1       21.1       32.4       35.6       0.         F       9       -7       12.2       7.03       17.1       50.1       71.2       24.3       34.1       587       2.         F       9       -7       12.9       7.20       17.1       50.6       70.3       23.8       33.8       433       1.         12.70       7.245       16.67       49.70       68.70       23.03       33.53       409.2       1.         33.26       0.567       0.98       2.90       2.25       1.11       0.69       113.0       0.	89A00049	Σ	9	1 -	5.	£.	4.	4.	0	ج	۳.	9	
F 9 -7 6.9 7.95 16.8 51.8 65.1 21.1 32.4 356 0. F 9 -7 12.2 7.03 17.1 50.1 71.2 24.3 34.1 587 2. F 9 -7 12.9 7.20 17.1 50.6 70.3 23.8 33.8 433 1. 12.70 7.245 16.67 49.70 68.70 23.03 33.53 409.2 1. 3.26 0.567 0.98 2.90 2.25 1.11 0.69 113.0 0.	89A00055	Σ	5	1	5.	$\sim$	7.	9.	7.	۳,	4.	S	
F 9 -7 12.2 7.03 17.1 50.1 71.2 24.3 34.1 587 2. F 9 -7 12.9 7.20 17.1 50.6 70.3 23.8 33.8 433 1. 12.70 7.245 16.67 49.70 68.70 23.03 33.53 409.2 1. 3.26 0.567 0.98 2.90 2.25 1.11 0.69 113.0 0.	89A00026	íц	6	1	6.	6.	9	J	5.		2.	5	
F 9 -7 12.9 7.20 17.1 50.6 70.3 23.8 33.8 433 1. 12.70 7.245 16.67 49.70 68.70 23.03 33.53 409.2 1. 3.26 0.567 0.98 2.90 2.25 1.11 0.69 113.0 0.	89A00037	Ĺω	6	1	2.	0.	7.	0		₹.	4	$\infty$	
n Dev 12.70 7.245 16.67 49.70 68.70 23.03 33.53 409.2 1. 3.26 0.567 0.98 2.90 2.25 1.11 0.69 113.0 0.	89 <b>A</b> 00060	Ĺ	<b>o</b>	/ -	2.	. 2	7.	0	0			$\sim$	•
Dev 3.26 0.567 0.98 2.90 2.25 1.11 0.69 113.0 0.	Mean				2.7	. 24	6.6	9.7	8.7	3.0	3.5	0.8	
					3.2	. 56	0.9	2.9	2.2	1.1	9.0	<u>.</u>	•

Appendix H (cont.): HEMATOLOGY

								The second secon					
Animal Number	Sex	Sex Group Day	Вау	SEG	BAN	EOS	BAS	LYM	MON	ATL	NRBC	РТ	APPT
89A00006	Σ	10	۲-	65	0	5	0	23	~	2	5	7.5	14 5
89A00044	Σ	10	7-	54	0	2	0	40	4	0	0	0.6	14.2
89A00057	Σ	10	<i>L</i> .–	80	0	1	0	14	2	~	0	9.8	13.8
89A00034	Œ	10	1	99	0	~	0	2.7	2	4	0	8.2	
89A00059	تعا	10	-3	72	0	2	0	20	Μ	<b>~</b> 1	0	8.0	
89A00067	ŗ,	10	L-	78	0	8	0	1 1	~	C	0	9.6	20.6
Mean Std Dev				69.2	0.0	2.3	0.0	23.3	2.8	2.8	0.3	8.72	16.23

HEMATOLOGY
(cont.)
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Appendix

				v mineddy									
Animal Number	Sex	Group	Day	SEG	BAN	EOS	BAS	LYM	MOM	ATL	NRBC	PrF	APPT
89 <b>A</b> 00012	Σ		-7		0	0	0	25	9	0	0		Ġ
89A00042	Σ	ı <del></del>	7-	55	0	9	0	37	2	0	0		. 4
89A00058	Σ	-	_7		0	-	0	24	-	_	0		ک
89A00022	נבו	7	1-		0	_	0	20	4	2	0		بن
89A00038	Ŀ	7	-7	97.	0	2	0	18	7	2	0	8.5	15.2
89A00072	H	1	-7	19	0	7	0	18	0	7	0	•	9.
Mean					1 .			-	1 .	1 .	1 .	9	
Std Dev				8.4	0.0	2.1	0.0	7.2	2.2	0.9	0.0	1.31	7
89 <b>A</b> 00003	Σ	2	1		0	l.	0	24	1.	9			9
89A00009	Σ	2	1	99	0	5	0	22	7	5	-	7.5	16.8
89A00047	Σ	2	7-		0	7	0	25	9	7	၁	•	~
89A00031	ч	5	1		0	1	0	33	4	_	_		و.
89A00063	īri	2	1		0	٣	0	21	<u>.</u> c.	0	0		
89 <b>A</b> 00066	Œ4	2	-7		0	2	0	25	4	~	0	•	
Mean				4	٠.	1 .	•	5.	1 .	1 .	1 .	-	1 .
Std Dev				5.2	0.0	2.4	0.0	4.2	1.8	2.4	0.5	0.81	-
89 <b>A</b> 00002	Σ	m	1		1	2	0		7	0	0		
89A00045	Σ	~	1-		0	9	0		3	Ş	2	•	
89A00052	Σ	<b>,~</b> )	1		0	2	0		9	_	0	•	
89A00025	Н	<u></u>	1	09	0	2	0	37	-	0	0	æ .⊱3	14.3
89A00033	í.	~;	-7				0		Υ	~	0		
89A00064	î.	3	1		0	<del>, -1</del>	0		2	7	-		14.5
Mean				67.7	0.3	2.3	0.0	25.2	2.7	1.8	0.5	8.77	15.55
Std Dev								$\alpha$	•				

Appendix H (cont.): HEMATOLOGY

89A00018 M 4 89A00048 M 4 89A00056 M 4 89A00039 F 4 89A00071 F 4 Mean Std Dev 89A00004 M 5 89A00011 M 5	<b>কিককক</b> ১০		55 68 57 68 74 72	00-								
ΣΣιμιμ ΣΣΣ	<b>4444</b>		87 84 7 2	0 -	3	0		т		0	•	0
Συμι ΣΣΣ	<b>444</b>	, , , , , , , , , , , , , , , , , , ,	7 8 4 7 7	-	2	0		c	2	0	•	5.
ι ιι ιι ΣΣΣ	<b>444</b> 2	ι · · · · · · · · · · · · · · · · · · ·	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	_	6	0	29	2	2	0	10.0	17.2
ι. ι. ΣΣΣ	44 0	r	2 2 5.	0	5	0		4	0	0	•	6.
ίι, ΣΣΣ	4 3	<i>(</i> -	2 2	0	5	0			0	0	•	4
ΣΣΣ	2	ر	5.	0	2	1		4	2	0	•	ب
ΣΣΣ	S.	ر	1		1 .	•	٠,	•	١.	1 .	.2	1 .
ΣΣΣ	2	r	•	0.4	2.7	0.4	7.0	1.2	1.0	0.0	1.37	$\sim$
ΣΣ						0		4	2	0		
Σ	S	1-		0	٣	0	19	0	2	0		9
	5	1-	46		4	0	47	1	_	7	8.8	14.0
لتر	2	۲-		0	0	0		$\sim$	7	-	•	
ĹĿ	5	-7		0	2	0	25	_	0	0	•	Q
נצו	5	-7		0	2	0		5	0	0	•	~
Mean			8.	1 .	1 .	1 .	6.	.			9	17.77
Std Dev			15.2	0.5	1.4	0.0	14.0	1.5	1.0	0.8	2.21	4.41
Σ	9	1		0	0	0		4	m	0		
89A00050 M 6	9	1	97.	0	0	0	18	5	J	~	Σ	14.2
Σ	9	-7		0	9	0		m	_	0		
ĹĿ	9	[		0	2	0		7	0	0		
H	9	1		0	2	0		0	~	0		
ĹĿ	9	1-		0	Ţ	0		9	0	0		
Mean				1 .	1 .	1 .		1 .	1 .	1 .	X + X	81
Std Dev			4.6	0.0	2.2	0.0	4.8	2.3	1.1	0.4	J. C.	(σ, α į

HEMATOLOGY
(cont.):
Appendix H

Arimal	Sex	Group	Дау	SEG	BAN	EOS	BAS	LYM	MON	ATL	NRBC	PT	APPT
17.000										,	ı		(
89A00019	Σ	7	1-		0	6	0		١	0	0	9	α
89400043	Σ	١	-7		0	4	0		m	c.	0	10.0	14.2
89400054	Σ	7	-7		0	4	0		0	7	0	C	9
050000080	Į.	, ,	-7		0	0	0		2	æ	<u>~</u>	٠	7.
000000000000000000000000000000000000000	בו ג	٠ ١-	7		0	-	0		2	0	0	•	4
89 <b>A</b> 00070	بعاً بـ	, ,	-7	89	0	2	0	23	2	2	0	•	б
9				1	ì	1			) .	•	.		•
Medn Std Dev				8.8	0.0	3.2	0.0	6.9	2.5	1.3	0.4	1.44	2.22
; ;						,	:		ſ	¢	5		_
89A00001	Σ	σ	1		0	S	0		Υ)	7	0	٠	•
89A00013	Σ	00	1		0	m	0		4	-	0	٠	
89400053	Σ	∞	7.1		0	m	0		4	<b>, -</b>	0	٠	<u>.</u> ^
89400040	<u> </u>	- α	-7		0	0	0	16	2	7	0	8.0	17.4
23000168	Ĺ	α	7		0	٦	0		m	4	0	•	~: ~:
89000 <b>8</b> 8	i Îti	- ∞	1-	80	0	0	0		m	0	0	•	0
				1	1	1 .	•	•	) .	•			16.22
Medii Std Dev				12.2	0.0	2.0	0.0	9.5	0.8	1.4	0.0	1.32	4
		đ	<i>.</i> –		C	^	С		2	7	0		
89A00003		n 0	- [		o	س ۱	· C		-	0	0	•	
89A00049		n c			) C	) <del>(-</del>	) C		α	4	0		
89A00055		ט כ	, <sub>-</sub>		> <	4 C	o		· ~	-	0	7.5	14.8
89A00026		n 0			)	) C	· C		4	رب	0		
89A00037 89A00060	ı, İı	תת		82	10	~ ~	0	10	4	٣	0	•	15.3
				1	1	1.	.	•	} .		1	8. 37	14.30
Medii nta Doi:				ر د د د د د د د د د د د د د د د د د د د	0.4	1.2	0.0	9.0	2.5	1.5	0.0	•	

Appendix H (cont.): HEMATOLOGY

Animal	Sex	Sex Group Day	Бау	WBC	RBC	нсв	HCT	MCV	МСН	МСНС	PLT	RET
Name of												
90000000	Σ	10	C	5.9	7.08	15.9	46.9	66.2	22.5	33.9	327	1.0
77000	Ξ Σ	0.	) C	14.4	6.78	15.7	47.7	70.3	23.2	32.9	323	1.4
75000400	2 ≥	2 -	) C	9.9	7.46	17.2	51.0	68.4	23.1	33.7	233	0.5
0000000	<u> </u>	0 -	· C	14.2	7.12	16.5	47.1	66.2	23.2	35.0	406	1.0
99400059	. (±	0.	o C	11.2	6.83	15.1	45.2	66.2	22.1	33.4	259	0.5
89A00067	بعاي	10	0	10.3	7.56	17.8	51.9	9.89	23.5	34.3	334	1.3
a o M				10.43	7.138	16.37	48.30	67.65	22.93	33.87	313.7	0.95
Std Dev				3.63	0.319	1.00	2.59	1.72	0.52	0.73	61.2	0.38

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	KBC	нсв	HCT	MCV	МСН	МСНС	PLT	RET
89A00012	Σ	1	0	0	5.	9	ي د	5.	1.	ω.	4	
89A00042	Σ	7	0	11.8	6.55	14.9	44.7	68.2	22.7	33.3	285	2.1
89A00058	Σ	_	0	7	9	5.	4.	9	2.	4.	0	•
89A00022	Ē	1	0	ω.	O	9	0	5.		ω,	4	
89A00038	ĹΤι		0	5.	٤.	4	$\widetilde{\cdot}$	2	5.	4	4	•
89A00072	Ĺτι	1	0	•	. 5	9	9	5.	2.	4	0	•
Mean				6.0	98	ω.	8	٣.	8	8	54.	١.
Std Dev				2.89	0.700	96.0	3.17	2.75	1.16	0.53	109.5	09.0
89 <b>A</b> 00003	Σ	7	0		. 4	6.	0	7.	2.	ω.	287	•
89A00009	Σ	2	0	16.9	90.9	14.5	42.5	70.1	23.9	34.1	364	1.2
89A00047	Σ	7	0	ω	9.	7 .	9.	5.	2.	4.	335	•
89A00031	ſч	2	0	•	0.	9	7.	8.	ж		347	٠
89A00063	Œ	7	0	5.	Υ.	5.	7	ب	;		407	•
89 <b>4</b> 00066	įτί	2	0	0.	~;·	7.	6	7.	ж Э	4	208	•
Mean				1.4	.15	7	8	0.	1.	8.	4	-:
Std Dev				3.10	0.569	96.0	2.89	2.26	0.85	0.40	76.1	0.69
89 <b>A</b> 00002	Σ	m	0	۲.	۲.	9	O	9.	ж	ω.	~	
89A00045	Σ	٣	0	11.3	7.12	16.4	48.6	68.2	23.0	33.7	439	1.3
89A00052	Σ	٣	0	1.	. 2	9	9.	ω	ن	ж		
89A00025	ĹĿļ	m	0	9.	5.	7.	5	ж Э	ن	ج		
89A00033	ĹŁ	m	0		٤,	9	ж Ж	9	2	4		
89 <b>A</b> 00064	Ŀ	9	0	ب	9 :	7.	<del>.</del>	9	2.		_	
Mean				٣.	7.335	16.83	49.98	68.15	22.95	33.67	407.0	1.48
Std Dev				1.54	. 22	0.3	1.3	1.2	0.3	C		Э`.

(cont.):

H

1.50  $1.53 \\ 0.62$ 1... 0.69 1.1 1.1 1.6 0.5 1.4 1.7 2.3 2.1 0.7 RET 376.7 322.5 41.4 \$63.2 : :: 288 366 317 353 350 PLT261 463 299 351 417 357 292 376 397 423 367 391 306 33.77 0.85 33.90 0.35 0.50 33.70 35.0 33.3 33.9 33.0 34.5 34.4 33.7 33.5 33.6 34.1 33.5 34.3 33.8 33.0 34.2 33.4 MCHC 22.40 1.09 23.15 0.67 22.78 MCH 24.5 21.8 22.1 21.5 22.6 21.9 24.5 22.6 22.4 24.1 23.2 22.1 22.0 24.0 22.8 22.5 22.5 22.5 22.5 68.27 2.64 66.37 1.91 67.62 1.63 65.4 65.3 65.2 65.2 66.7 66.8 71.7 68.0 64.9 65.7 70.0 67.5 68.1 65.9 68.5 71.1 47.78 48.18 45.32 2.31 47.4 51.0 47.9 43.9 48.6 50.3 44.9 48.9 42.8 43.9 47.3 48.8 43.3 46.0 51.5 48.7 HCT  $16.20 \\ 1.00$  $16.25 \\ 1.02$ 15.30 16.8 14.6 15.4 17.3 16.6 15.9 17.5 16.2 14.5 16.6 15.7 16.3 14.5 14.5 16.3 HGB 6.835 6.997 0.346 7.128 0.352 6.56 6.45 6.88 7.18 7.16 7.45 7.22 7.28 7.10 7.38 6.41 7.48 7.22 6.61 98.9 6.44 Appendix 10.58 10.42 2.63 10.62 9.1 12.4 9.1 8.3 10.1 14.5 8.7 9.3 9.5 11.5 15.6 9.1 7.2 111.1 111.3 112.7 8.9 8.9 WBC Day 00000 000000 00000 Group စစ္စေစစ 22222 444444 Sex ΣΣΣωμω ΣΣΣωωω ΣΣΣωωω 89**A**00056 89**A**00020 89A00039 89A00071 89A00018 89A00048 89A00046 89A00065 89A00050 89A00029 89A00027 89A00069 89A00051 89A00041 89A00004 89A00011 89A00007 Mean Std Dev 89A00061 Mean Std Dev Animal Number Std Dev Mean

0.95 0.83  $1.63 \\ 0.90$ 0.6 1.9 0.6 0.5 1.5 0.8 1.1 0.8 0.9 0.6 2.3 0.7 1.2 2.5 2.5 0.6 RET 329.3 373.3 142.5 366.. 95.. PLT186 380 346 356 338 370 274 282 474 493 353 321 276 450 293 387 593 241 33.43 34.17 33.60 33.7 33.1 34.2 34.9 34.3 33.4 33.6 33.1 33.1 34.0 33.1 34.2 32.3 34.7 22.63 1.03 22.82 0.62 23.12 1.13 22.7 23.1 21.0 22.0 24.0 21.9 22.3 23.2 23.6 22.9 23.0 23.2 23.3 23.1 21.1 24.6 23.4 MCH HEMATOLOGY 67.62 2.69 66.80 . 77 67.8 68.7 63.2 66.3 71.2 65.2 67.4 67.7 67.6 66.7 66.2 68.2 70.4 67.6 65.1 71.0 68 47.97 46.30 47.80 48.5 47.3 43.5 51.6 49.8 47.5 52.0 44.1 39.0 49.5 47.7 45.9 49.1 49.2 45.0 (cont.): 6.05 1.33 05 61 16.2 15.9 14.5 17.1 16.8 15.8 16.0 17.2 15.1 13.6 17.0 6.2 6.8 6.8 6.6 6.6 . 0 0 7.097 6.935 6.960 I 6.99 6.52 7.26 7.55 6.34 7.15 6.88 6.89 7.79 6.99 6.88 7.29 7.71 6.51 5.77 7.42 6.91 RBC Appendix 10.73 11.48 3.63 11.48 7.6 11.7 9.9 11.8 18.2 111.5 12.3 16.2 6.8 12.3 12.1 7.0 12.7 10.4 8.8 WBC Day 00000 000000 00000 Group  $\sigma\sigma\sigma\sigma\sigma\sigma\sigma$ r $\infty$   $\infty$   $\infty$   $\infty$   $\infty$ Sex ΣΣΣωωω ΣΣΣμμμ ΣΣΣωωω 89A00005 89A00049 89**A**00055 89**A**00026 89**A**00030 89**A**00035 89A00001 89A00013 89A00070 89000868 89A00019 89A00043 89A00054 89A00053 89A00040 89A00062 89A00037 89A00060 Mean Std Dev Animal Number Std Dev Std Dev Mean Mean

				Appe	Appendix F	H (cont.):	: ( :	HEMATOLOGY	LOGY				
Animal Number	Sex	Sex Group Day	Day	SEG	BAN	EOS	BAS	ГХМ	MON	ATL	NRBC	PT	APPT
89A00006	Σ	10	0	69	0	ന	0	26	-	1	1	6.2	14.0
89A00044	Σ	10	0	11	0	2	0	11	1.	m	0	8.7	14.8
89A00057	Σ	10	0	74	0	9	0	16	. <b>T</b> )	<b>~</b>	0	8.4	15.8
89A06034	Ŀ	10	0	16	0	0	0	2.1	~	0	2	6.7	14.8
89A00059	ĹŁ	10	0	7.0	0	0	<b>-</b>	30	0	0	0	8·6	16.2
89A00067	ĹĿ	10	0	72	1	Μ	0	1.7	<b>~</b>	4	0	8.6	13.5
Mean Std Dev				73.0	0.2	2.3	0.0	20.2	2.8	1.5	0.5	8.07	14.85

Animal Number	se x	Group	Ваγ	SEG	BAN	EOS	HAS	I.YM	MON	ATL	NKBC	FT	APPT
89 <b>A</b> 00012		-	С	3	0	~	٦	31	4	7	0	8.7	~
89A00042	Σ		0	59	0	~	Э	2.2	_	9	0		16.9
89A00058		-	0	7.6	D	0	С	2.2	~	0	0	8.2	4.
89A00022		-	0	7.4	Э	0	С	24	2	0	0	1.2	1.
89AC0038			0	7.2	0	_	0	52	~	~-	0	8.9	ж Ж
89 <b>A</b> 00072		1	0	1.9	0	~-	0	3.1		0	1	0.6	•
Mean				1 .	0.0		0.0		1 .	1 .		7.25	6.
Std Dev				5.4	0.0	6.0	0.0	4	1.2	2.3	0.4		96.5
89 <b>A</b> 00003	Σ	5	0	89	С	4	0	21	'n	5	-	7.0	15.1
89A00009	Σ	2	С	7.1	0	_	0	2.4	4	0	0	8.2	16.5
89A00047	Σ	~	Э	ř	0	0	0	3.6	-	2	0	9.4	15.2
89 <b>A</b> 00031	<b>1</b> 4,	~	0	6.3	٥	5	0	2.1	_	0	0	7.2	19.8
89A00063	<b>ж</b>	~	Ξ	x.		_	0	2.1	Э	0	0	8.0	15.4
89A00066	<u>.</u>	24	Э	<b>9</b>	<i>_</i>	0	С	19	~	2	0	0.6	15.6
Mean				69.0	0.0		0.0	25.2	2.3	1.0	0.2	8.13	16.27
Std Dev				÷.	0.0	3.5		7.3	2.0	1.1	0.4	0.95	1.80
89 <b>A</b> 000002	Σ	~	()	a S	_	æ	0	21	2	4	7	8.9	16.6
89A00045	Σ	~	Э	69	0	0	0	2.7	4	0	0	x x	16.8
89A00052	Σ	~	0	6.4	_	-	0	30	4	0	2		
89A00025	14	~		62	0	٦	0	28	5	4	0	1.2	14.2
89A00033	ىد	~	()	6.3	_	_	0	28	3	)	0		٠.
89A00064	ú.	~	Э	11,	0	2	0	32	m	9	$\sim$	7.6	15.7
Mean				64.7	0.5	1.3	0.0	27.7	3.5	2.3	1.0	8.00	15.47
Std Dev				/. P	- C	C -		۱. ۲			~ [	6.1.1	7 0 1

Image         Eex Group         Day         EGS         BAS         LYM         MON         ATL         NR           Imber         Imper	χ υ υ ΣΣΣαια ΣΣΣαια α			<b>:</b>				: :					!
A       A       0       66       1       1       0       27       4       1         F       A       0       64       0       1       0       31       2       2       0         F       A       0       62       1       6       0       28       2       1       0         A       0       65       0       1       0       38       2       4       0       0         A       6       0       1       0       22       4       5       0       0       2       4       5       3       3       4       4       5       3       3       4       5       4       5       4       5       4       5       4       5       4       6       6       6       6       6       6       7       4       6       6       7       7       6       7	ΣΣΣωμω ΣΣΣωωυ		0	1	BAN	EOS	BAS	LYM LYM	MOM	ATL	NRBC	PT	APPT
M       4       0       64       0       1       0       31       2       2         F       4       0       57       1       4       0       28       2       1       0         F       4       0       57       0       1       0       28       2       1       0         F       4       0       1       0       38       4       0       0         M       5       0       5       0       0       2       4       5       3         M       5       0       50       0       0       2       0       0       2       0       0       2       0       0       3       0       1       0       0       3       0	ΣΣωωω ΣΣΣωωω			99	٦		0	27	4	1	0	6.7	0
F. 4 0 62 1 6 0 28 2 1 0 0 28 2 1 0 0 28 2 1 0 0 25 1 0 0 25 1 0 0 25 1 0 0 25 2 0 0 1 0 28 2 2 0 0 0 1 0 22 0 0 22 0 0 22 0 0 22 0 0 22 0 0 22 0 0 0 22 0 0 0 22 0 0 0 0 0 1 0 0 0 0	Σωωω ΣΣΣωωω		0	64	)	7	Ο	3 j	2	2	0	.∵ 6 	16.2
F. 4 0 57 1 4 0 38 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ωμυ ΣΣΣωωυ		0	62	-	9	0	82	2	_	0		9.
F. 4 0 57 0 1 0 38 4 0 0 0 0 22 4 5 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ωυ ΣΣΣωωυ		0	14		4	0	\$\frac{2}{\times}	~	4	0		9
F 4 0 68 0 1 0 22 4 5 3 3 4 6 5 4 5 3 4 6 5 4 6 5 4 6 5 4 6 5 4 6 5 4 6 5 4 6 5 4 6 5 4 6 5 4 6 5 4 6 6 6 6	ω ΣΣΣωωω		0	57	0	_	0	<b>£</b>	4	0	0	7.2	J.
M       5       0.5       2.3       0.0       29.7       3.0       2.2       0         M       5       0       50       0       2.2       0.0       5.4       1.1       1.9       1         M       5       0       50       0       0       0       19       1       1       0         F       5       0       79       0       0       0       19       1       1       0         F       5       0       79       0       0       0       19       1       1       0       19       1       1       0       1       0       0       1       0 <td>ΣΣΣίμιο ο</td> <td></td> <td>0</td> <td>68</td> <td>0</td> <td>7</td> <td>0</td> <td>2.2</td> <td>4</td> <td>5</td> <td><math>\sim</math></td> <td></td> <td>•</td>	ΣΣΣίμιο ο		0	68	0	7	0	2.2	4	5	$\sim$		•
M       5       0       50       0       5.4       1.1       1.9       1         M       5       0       50       0       2       0       37       4       7       0         M       5       0       50       0       0       19       1       1       0         F       5       0       56       0       0       1       0       35       2       1       0         F       5       0       77       0       1       0       22       0 </td <td>ΣΣΣωωω</td> <td></td> <td></td> <td></td> <td>j -</td> <td>1 .</td> <td>0.0</td> <td>29.7</td> <td></td> <td>1 .</td> <td>  •</td> <td>8.37</td> <td>16.95</td>	ΣΣΣωωω				j -	1 .	0.0	29.7		1 .	•	8.37	16.95
M       5       0       50       0       2       0       37       4       7         M       5       0       79       0       0       0       19       1       1       0         F       5       0       79       0       6       0       16       4       1       0         F       5       0       77       0       1       0       22       0       0         6       0       77       0       1       0       28       0       2       0         6       0       72       0       1       0       26.2       1       8       2.5       0         7       6       0       72       0       1       0       22       3       0       0         7       6       0       70       0       1       0       22       3       0       0         8       6       0       70       0       1       0       22       3       0       0         8       6       0       70       0       1       0       0       0       0	ΣΣΣαάι.			•	٠	•		£., ?	1.1	•	•	0.80	2.41
M       5       0       79       0       0       0       19       1       1       0         F       5       0       56       0       6       0       16       4       1       0         F       5       0       77       0       1       0       22       0 <th< td=""><td>ΣΣωωω</td><td></td><td>0</td><td>50</td><td>0</td><td>2</td><td>0</td><td>3.7</td><td>4</td><td>7</td><td>0</td><td>6.2</td><td>15.4</td></th<>	ΣΣωωω		0	50	0	2	0	3.7	4	7	0	6.2	15.4
M       5       0       56       0       6       0       35       2       1       0         F       5       0       77       0       1       0       22       0 </td <td>Σնեն ն</td> <td>Ū</td> <td>С</td> <td>19</td> <td>0</td> <td>0</td> <td>0</td> <td>19</td> <td></td> <td></td> <td>0</td> <td>8.2</td> <td>े. इ.स.</td>	Σնեն ն	Ū	С	19	0	0	0	19			0	8.2	े. इ.स.
F 5 0 77 0 1 16 4 1 1 0 0 0 1 16 4 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	فسيد تد	Ĭ	0	95	0	9	0	35	2	_	0	9·8	16.8
F 5 0 77 0 1 0 22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Car Car		0	67.	$\odot$	0	0	16	4	_	0	7.2	16.0
F 5 0 69 0 1 0 28 0 2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0	ů.		0	1.1.	0	~	0	22	0	0	0		
M       6       0.0       1.7       0.0       26.2       1.8       2.0       0         12.6       0.0       2.3       0.0       8.6       1.8       2.5       0         M       6       0       72       0       1       0       18       4       5       0         M       6       0       72       0       1       0       18       4       5       0         F       6       0       70       0       7       0       21       2       0       0         F       6       0       47       0       0       45       6       2       0         F       6       0       77       1       0       0       20       2       0       6         6       0       77       1       0       0       20       2       0       6         6       0       77       1       0       0       2       0       0         6       0       0       0       0       0       2       0       0         10       0       0       0       0       0 <t< td=""><td></td><td></td><td>Ξ.</td><td>69</td><td>0</td><td>7</td><td>0</td><td>28</td><td>0</td><td>5</td><td>0</td><td>8.2</td><td>14.0</td></t<>			Ξ.	69	0	7	0	28	0	5	0	8.2	14.0
M 6 0 72 0 3 0.0 8.6 1.8 2.5 0 0 0 M 6 0 172 0 3 0 22 3 0 0 0 0 M 6 0 172 0 18 4 5 0 0 0 M 6 0 10 10 0 18 4 5 0 0 0 M 6 0 10 0 10 0 18 4 5 0 0 0 M 6 0 10 0 1 0 0 1 0 0 1 0 0 M 6 0 1 0 0 1 0 0 1 0 0 1 0 0 M 6 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 1 0	Std Dev					1	0.0	6	( .			71.73	14.78
M       6       0       72       0       3       0       22       3       0       0         M       6       0       72       0       1       0       18       4       5       0         M       6       0       70       0       7       0       21       2       0       0         F       6       0       64       0       1       0       34       1       0       0         F       6       0       47       0       0       0       45       6       2       0         F       6       0       77       1       0       0       20       20       0         F       6       0       0       2       0       2       0       0         F       6       0       0       0       0       2       0       0         F       6       0       0       0       0       0       0       0       0         F       6       0       0       0       0       0       0       0       0       0         10.7       0       0							0.0	8.				0.83	1.1
M         6         0         72         0         1         0         18         4         5         0           M         6         0         70         0         7         0         21         2         0         0           F         6         0         64         0         1         0         0         0         0         0         0         0           F         6         0         77         1         0         0         20         2         0         0           67.0         0.2         2.0         0.0         26.7         3.0         1.2         0           10.7         0.4         2.7         0.0         10.6         1.3         2.0         0	Σ		0	72	0	æ	0	22	m	0	0	7.7	16.6
M       6       0       70       0       7       0       21       2       0	Σ		0	72	0	7	0	18	4	5	0		14.8
F 6 0 64 0 1 0 34 1 0 0 0 F 6 0 47 0 0 0 45 6 2 0 0 F 6 0 77 1 0 0 0 20 2 0 0 0 0 0 0 0 0 0 0 0 0 0	Σ		0	7.0	)	7	0	21	2	0	С	, ⊛	77.61
F 6 0 47 0 0 0 45 6 2 0 F 6 0 77 F 0 0 0 20 2 0 6 67.0 0.2 2.0 0.0 26.7 3.0 1.2 0. 10.7 0.4 2.7 0.0 10.6 1.8 2.0 0.	Ŀ		0	64	0	-	0	34	7	0	С	ε.σ	8.1.
F 6 0 77 1 0 0 0 20 2 0 6 6 6 7 1 0 0 0 20 2 0 0 0 6 7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ŗr	_	0	4 /	0	0	0	45	9	7	С		
67.0 0.2 2.0 0.0 26.7 3.0 1.2 0. 10.7 0.4 2.7 0.0 10.6 1.3 2.0 0.	îe.		0	1.1	<u>.</u>	٥	0	20	2	0	<u>ي</u>	x x	1
Dev 10.7 0.4 2.7 0.0 10.6 1.3 2.0 0.	Mean			1 .			1 .	10	1 .		) .	1.	·
	Std Dev			10.7	0.4		•	$\Box$	•	•	•		= .

				Lq Lq	 	•				1	1	:	1
Animal	Sex	Group	Day	SEG	BAN	EOS	BAS	LYM	MON	ATL	NRBC	F.1.	APPT
0.000000		,	C	65			0	30	9	0	0	7.7	14.5
69A00013		٠ ر	o C	, C	; <b>-</b>	. ~	· C	30	m	-	0		•
89A00043		- د	> <	50	• =	) (	· C	<u>.</u>	) m	· ~	0		•
89A00054		- ر	> <	70 C 9	) C	· -	) C		) <del></del>	,	· C		
89A00030		٠	) C	07 7 A	) C	٠ ،	) C	; <del>(*</del>	· x	· ~	0		13.4
89AC0070	يا لد	, ,	0	67	0	1 4		2.1	5 3	0	0	9.3	•
<b>X</b>				60.7	.		٠,		١.	1.3	0.0	8.42	} .
Std Dev				4.5	0.4	2.3	0.0	2.8	2.6	1.4	0.0	1.08	1.93
89400001		∞	0	99	0	9	0	21	9	7	0		
89A00013		· α	0	61	0	m	0	32	4	0	0		$\circ$
89A00053		σ	0	1.4	С	<b>,</b>	0	2.0	50	0	0	8.2	18.0
89A00040		ထ	0	7.5	~1	0	0	21	2	0	0		16.0
89A00062		<b>x</b>	0	7.3	0	0	0	2.1	9	0	_	ۍ . د .	· · ·
89A00068	í.	æ	0	14	0		0	23	2	0	0	9.3	15.3
Moon				70.5	ا ا ا		0.0	1 .	.	0.2	0.2	8.27	1 .
Std Dev					0.8	2.3	0.0	4.5	1.8	0.4	0.4	•	
200000488		σ	٥	64	0		0	26	4	5	1	6.4	17.2
89400049		6	0	48	0	80	0	40	3		0	0.6	
89A00055	Σ	6	0	59	0	2	0	33	9	0	0	∵. æ	]; •
89A00026		5	0	56	0	٣	0	40	-	0	)	0.7	
89A00037		6	0	61		0	0	36	2	0	0	•	<del>ਰ</del> (
89A00060		6	0	7.1	0	S	0	21	m	0	0	φ. Σ	0.67
Mean				59.8	0.2	3.2	0.0	32.7	3.2	1.0	0.2	7. 50	15.63
Std Dev								•	٠	•	٠	-^ 	·, / · · ·

Appendix H (cont.): HEMATOLOGY

Animal	Sex	Sex Group Day	Dаγ	WBC	RBC	нсв	нст	MCV	MCH	MCHC	PLT	RET
89A0006 89A00044 89A00057 89A00034 89A00059	五五五四四	10 10 10 10 10		6.7 12.8 9.0 19.4 12.1	6.69 6.44 7.44 7.49 6.66	15.4 15.3 16.9 17.0	44.8 43.9 50.3 50.0 43.0	67.0 68.2 67.6 66.8 64.6 68.4	23.0 23.8 22.7 22.7 22.4 23.4	34.4 34.9 33.6 34.0 34.7	326 277 268 423 265 302	1.0 0.5 0.5 2.5 1.9
Mean Std Dev	:			11.73	7.047	16.20	47.28	67.10	23.00	34.30	310.2	1.33

Appendix H (cont.): HEMATOLOGY

Animai Number	Sex	Group	Бау	WBC	RBC	НСВ	HCT	MCV	МСН	мснс	PLT	RET
89 <b>A</b> 00012	Σ	<b>~</b>	-	4.	.2	ت	7.	5.		ش	0	
89A00042	Σ	-	-	0	4.	4.	ج	7	2.	ω.	9	
89A00058	Σ	-	_	7.9	6.64	14.9	43.8	0.99	22.4	34.0	303	0.5
89A00022	ī	-	_	8	ω.	5.	ب	ج	2.	5.	2	
89A00038	ī	-	-	2.	Ξ.	5.	4	2.	4.	4	$\infty$	
89A00072	נבי	-	1	•	. 4	9	9.	. 9	2.	3.	2	•
Mean				5.	.80	4.	4.	9	7.	6.	39.	J m.
Std Dev				5.32	0.497	11.0	2.50	3.00	1.05	0.62	132.4	1.12
89 <b>A</b> 00003	Σ	2	r-4	•	ę.	رة	9	7.	2	٣.	S	
89A00009	Σ	2	_	15.7	6.13	14.6	43.2	70.4	23.8	33.8	378	1.C
89A00047	Σ	2	7	•	9.	9	9.	5.		<u>~</u>	9	
89A00031	ы	2	_	α	. 7	5.	5.	7.	$\overset{\sim}{\sim}$	4	$\sim$	
89A00063	Ŀ	2	-	•	6.	5.	<u>.</u>		2.	4	$\sim$	
8 <b>9A</b> 00066	Ĺ	2	-	0	~.	9	α	7.	2.		$\mathcal{L}$	
Mean				7.	90	9	[	6.	9.	∞	0	} .
Std Dev				2.80	0.487	0.72	2.50	2.38	0.76	0	68.3	0.28
89 <b>A</b> 00002	Σ	М	1		۲.	5.	9	8	2	2.	342	
89A00045	Σ	æ	-	8.7	7.10	16.3	48.0	9.19	23.0	34.0	345	5.0
89A00052	Σ	3	Т	•	9.	2.	8	7.	3.	æ.	299	
89A00025	ĩ.	æ		٠	7.	5.	5.	7.	$\overset{\sim}{\cdot}$	5.	373	
89A00033	۱۰،	3	-	•	$\infty$	5.	9	7.	2.	ж Э	562	
89 <b>A</b> 00064	نعا	М	-	4	0.	9	9	9	2.	4	335	
Mean				10.48	6.678	15.32	45.13	67.60	22.95	33.95	4.81.2	1.18
100 P				7	ک ک	1	7	α	٠	_	-	4

1.23 1.03 0.671.10 0.5 1.4 0.6 0.5 2.2 1.2 0.6 1.8 1.2 1.6 1.0 1.4 1.0 1.4 0.8 RET 400.2 315.0 53.2  $\infty$ PLT 247 286 353 287 395 322 391 416 462 438 376 318 350. 317 321 391 346 34.25 34.15 .10 34.1 34.7 34.4 34.3 34.0 35.1 34.1 33.6 34.6 33.2 34.3 33.6 34.7 34.0 33.8 33.8 MCHC 34 22.72 0.75 23.25 0.90 .02 MCH 24.2 22.5 22.2 22.3 22.4 22.4 24.4 22.9 22.5 24.4 22.7 22.7 21.9 24.0 23.0 22.8 23.2 23 HEMATOLOGY 66.35 68.07 1.73 57 69.7 67.1 66.8 70.4 68.4 71.1 64.9 64.6 65.0 65.8 65.3 69.2 67.8 67.6 66.6 67.5 43.52 47.90 1.98 93 45.5 40.4 38.5 48.2 43.8 47.3 47.8 45.5 50.8 46.4 42.6 45.8 47.7 42.3 HCT · . 4 (cont.): 14.90 1.17 16.37 0.90 15.67 15.5 15.5 13.0 16.4 16.6 16.3 15.3 17.6 15.4 14.3 15.9 16.2 14.3 16.3 6.558 0.492 7.040 I 6.7976.40 6.26 5.92 7.32 6.56 6.79 7.12 6.81 7.22 6.79 6.52 6.62 7.04 6.26 7.02 RBC Appendix 11.68 11.68 68 12.0 10.5 10.6 13.7 10.4 7.3 10.7 13.3 9.9 9.1 7.8 8.7 9.0 9.0 9.8 9.3 9.3 WBC Day ---------------Group 999999 444444 22222 Sex  $\Sigma \Sigma \Sigma F F F$ ZZZmmm ΣΣΣμμμ 89A00056 89A00018 89A00048 89A00020 89A00039 89A00046 89A00050 89A00029 89A00011 89A00027 89A00065 89A00004 89A00069 89A00007 89A00051 89A00041 89A00071 89A00061 Animal Std Dev Number Std Dev Mean Mean

1			,	Appendix	dix H	(cont.):		HEMATOLOGY			İ	
Animal Number	Sex	Group	Бау	WBC	RBC	нсв	HCT	MCV	NCH	МСНС	PLT	RET
	2	۲	ŗ	ک		ک	α	a	c	c		
10000	Ξ 2	- 1	٦,	•		·		o c	, c	) (	· ɔ	٠
940004	Σ	· -	٦,	T (	. ر	T (	- (	٠,	· .	· ·	0 :	•
9 <b>A</b> 0005	Σ	7	<b>-</b>	7	<b>٠</b> .	٠.	ر	_;	<u>.</u>	4	$\infty$	٠
9A0003	Ŀı	7	⊣	•	. 2	9	7.	5.	2	5.	2	٠
89A00035	بعا	7	-	8.8	5.96	14.4	41.9	70.3	24.2	34.4	294	1.6
9 <b>A</b> 0007	(±4	7	<b>-</b>	•	9.	5.	5.	89	(n)	4	$\sim$	
Z W				. 2	.54	5.0	10	7	9	4.2	01.	-
Std Dev				3.13	0.549	1.23	3.61	$\sim$	1.14	0.68	70.7	0.76
898000001	Σ	α	7	•	٠,	5.	7.	4.	۔ ہے	س	251	
89400013	Σ	· œ		4	٠.	9	6	ζ.		٣,	287	•
89400053	Σ :	α	· <del></del>		· C	· .				, ,~	464	
89400040	: <u>L</u>	ο α	- ٠	·	$\infty$	,		. σ	, , ,	· ·	439	
89400062	Ĺ	ο α	. ,	•	6	2	9	9	0;	<u>ر</u>	308	٠
8900068	, <u>fr</u> ,	8	1	8.6	6.83	15.3	45.8		22.4	33.4	318	0.5
Mean				∞	.72	0.	0.	6.	J w.	4	4	
Std Dev				7	0.652	1.32	3.94	1.09	0.36	0	86.4	0.29
89800005		0	-		9.	5.	4.	7	~	4.	C.4	
89A00049	Σ	6	, <b>-</b>	7.0	7.15	16.4	49.0	9.89	22.9	33.5	350	0.5
89A00055		6	1	•	8	5.	9	7	<u>ب</u>	4	4	•
89AC0026		6	_	•	7.	4.	3.	4.	Ξ.	2.	~	
891,00037		6	_	•	. 2	4.	4.	0	ж	<u>ج</u>	$\infty$	•
89 <b>A</b> 00060		6	1	•	9.	9	9	6	4.	4	$\sim$	
Mean				.5	73	5	9.	67.78	23.03	1 .	353.3	06.0
Std Dev				2.33	0.287	0.84		£,		0.78	129.0	0.52

Appendix H (cont.): HEMATOLOGY

Animal	Sex	Sex Group Day	Day	SEG	BAN	EOS	BAS	LYM	MON	ATL	NRBC	ЪЪ	APPT
Number													
300000000	Σ	10	_	6.4	0	2	0	28	9	0	0	6.7	14.5
6940000	ΞΞ	2 -	- ۲	τ α α	0	l M	0	35	2	2	0	8.5	14.4
89800044	Ε 2	2 5		74	) C	, ,	0	22	2	7	0	8.0	16.0
89400037	E 1	2 5	-, ۲	79	) C	0	0	16	2	3	0	9.8	14.2
89A00034	ב, [	7 -	٦,	0	) C	, r		46	2	0	0	9.5	15.5
89A00059 89A00067	יי בי	10	, ,	77	0	2	0	16	-	<b>.</b>	0	8.9	17.8
				66.8	0 0	2.3	0.0	27.2	2.5	1.2	0.0	8.17	15.40
Mean Std Dev				11.9	0.0	1.8	0.0	11.8	1.8	1.2	0.0	1.26	1.33

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	υay	SEG	BAN	EOS	BAS	ГХМ	MOM	ATL	NRBC	PT	APPT
89400012	Σ	-	-		C	;	<u> </u>		~	_	<u> </u>		ď
89400042	: ≥	- ،	· -		) C	۰ ۸	· C		<b>7</b>	1 0	o C	•	
89800058	Σ	-, ۱	٠.		o	ı	) C		-, ۰	· C	· C	•	
89400022	Ĺ.	۱	·			, L	· C		, –	. –	· C	•	v
89400038	, [z.	۱	·	67	o O	· —	· C		. 10	۱	0	-	. 4
89A00072	, Eu	ı —	, <sub>-</sub>	71	0	-	0	25	m	0	0	7.2	15.6
Mean				•	١.			١.	.	.	١.	0.	2.
Std Dev				5.6	0.0	1.8	0.0	9	1.6	0.5	0.0	1.24	0.80
89A00003	Σ	2	-		0	m	0		0	۲-4	0		9.
89A00009	Σ	2	1	73	0	0	0	23	2	7	0	8.9	16.5
89A00047	Σ	2	7		0	0	0		٣	4	0	•	5.
89A00031	Ŀ	2	7		0	9	0		4	0	0	•	7 .
89A00063	Ŀ	7	7		Ō	4	0		0	0	0	•	7.
89 <b>¥</b> 000 <b>6</b> 6	ĹĿ	2	J		0	-1	0		2	0	0	•	7
Mean				.	.	1 .		•		•			
Std Dev				6.1	0.0	2.4	0.0	4.2	1.6	1.6	0.0	0.91	1.41
89 <b>A</b> 00002	Σ	m	,4		_	9	0		4	2	0		9.
89A00045	Σ	m	_	77	0	2	0	17	4	0	0	8.2	15.9
89A00052	Σ	3	7		0	9	0		2	0	0	•	4.
89A00025	ſŧ,	٣			0	-	0		٣	7	0	•	Ç
89A00033	Ŀ	٣	-		0	0	0		11	7	0	•	٠
89A00064	Ĺ	m	1		0	0	0		6	4	0	•	7.
Mean				70.0	0.2	2.5	0.0	20.5	5.5	1.5	0.0	8.68	
Std Dev						•		•		•		_	1.91

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Бау	SEG	BAN	EOS	BAS	LYM	MOM	ATL	NRBC	PT	APPT
89A00018	Σ	4	-	41	0	m	0	4.1	9	m	2		5.
89A00048	Σ	4	7	89	0		0	2.7	2	2	0	8.2	14.7
89A00056	Σ	4	-	61	0	2	0	32	2	0	0		7.
89A00020	Ŀ	4	<b>,</b>	58	0	_	0	40	-	0	0		5.
89A00039	Œ	4	-	55	0	2	0	37	4	2	0		4.
89 <b>A</b> 00071	ī	4	-	89	0	2	0	24	4	2	0	•	. 9
Mean				8.	1 .	١.	.			1 .		0.	15.80
Std Dev				10.1	0.0	1.5	0.0	8.5	1.8	1.2	0.8	1.39	1.24
89A00004	Σ	5	<b>,_</b>		0	1	0		7	-	0		Σ
89A00011	Σ	5	_		0	0	0		7	_	7	•	4
89A00046	Σ	5	-		0	4	0		2	0	0		$\overset{\cdot}{\boldsymbol{\gamma}}$
89A00027	Ŀ	5	7	74	0	0	0	15	80	m	2	6.2	14.5
89A00065	ī.	5	,		0	7	0		_	C4	0	•	6.
89 <b>A</b> 00069	نع	5	7		0	5	0		5	N	0	•	O
Mean					1 .		•	1 .	1 .	1 .		1 .	.s
Std Dev				8.6	0.0	1.5	0.0	9.7	2.8	1.0	0.8	08.0	1.88
89A00007	Σ	9	-		0	7	0	21	٣	1	0	7.0	
89A00050	Σ	9	-	19	0		0	16	2	2	0	5.4	12.8
89A00051	Σ	9	_		0	4	0	12	_		0	•	•
89A00029	ъ	9			0	0	0	30	$\sim$	0	0	•	•
89A00041	(Li	9	-		0	<b>.</b> —	0	25	4	2	0	9.4	•
89A00061	Ĺ	9	-		0	က	0	17	4	4	0		
Mean				73.7	0.0	1.7	0.0	20.2	2.8	1.7	0.0	7.90	15.23
Std Dev												1 7.4	07.

15.93 1.8916.32 2.56 1.14 16.90 20.7 14.8 17.2 13.2 15.5 21.7 18.6 13.0 18.0 14.7 14.2 17.8 16.7 17.2 13.0 APPT 8.48 1.26  $8.07 \\ 1.09$ 8.50 7.0 8.8 8.8 7.0 8.0 7.5 9.0 9.0 8.8 2.0 2.8 2.7 2.0 9.8 L.4 0.0 0.0 0.3 NKBC 000000 00000 007700 0.2 2.0 A"L 000000 0000 1 4 0 0 1  $\infty$ 2.5 3.2 2. HEMATOLOGY MON 441024 25232 1 2 2 2 1 26.5 26.7 25.2 10.7  $\Gamma XM$ 27 23 20 32 32 35 37 32 24 26 26 18 23 37 21 26 26 36 36 23 0.0 0.0 00 BAS (cont.): 00000 00 00000 00000 3.2 2.0 2.0 EOS m 3 m 2 4 7 0000 7040 H 0.0 0.0 2.4 Appendix BAN 000000 00000 00 00000 67.3 66.5 68.2 10.5 SEG 66 68 64 64 71 59 48 59 71 70 75 56 77 66 60 60 70 86 Day -----Group  $\sigma\sigma\sigma\sigma\sigma\sigma$ r**8 8 8 8 8 8 9** Sex ΣΣΣωωω ΣΣΣωωω ΣΣΣμμμ 89A00035 89A00070 89A00055 89A00026 89A00030 89A00049 89A00019 89A00043 89A00054 89A00013 89A00053 89A00040 89A00062 89A00068 89A00005 89A00037 89A00060 89A00001 Mean Std Dev Animal Number Std Dev Std Dev Mean Mean

Appendix H (cont.): HEMATOLOGY

Animal	Sex	Sex Group Day	Бау	WBC	RBC	HGB	нст	MCV	МСН	МСНС	PLT	RET
90000468	Σ	10	2	8.0	98.9	15.7	46.3	67.5	22.9	33.9	411	1.8
89900048	Σ	0 -	, ~	16.4	6.41	14.9	44.2	0.69	23.2	33.7	278	0.8
F \$ 000 U C 6	Σ :	01	. ~	2 8	7.29	16.9	49.1	67.3	23.2	34.4	246	0.2
15000460	<u>.</u>	10	; ~	18.5	7.13	16.4	48.3	67.8	23.0	34.0	380	1.0
89400059	عا ب	0 -	1 0	14.1	6.76	15.0	44.8	66.2	22.2	33.5	257	1.0
89 <b>A</b> 00067	بيا ب	10	5	9.6	7.66	17.5	52.2	68.1	22.8	33.5	325	0.7
Mean				12.50	7.018	16.07	47.48	67.65	22.88	33.83	316.2	0.92
Std Dev				4.47	0.438	1.05	3.00	0.93	0.37	0.34	6.19	0.52

Appendix H (cont.): HEMATOLOGY

Number   Sex Group Day   WBC   RBC   HGB   HGT   MCV   MCH   MCHC   PLT   RET					7.7								
M         1         2         12.3         7.03         15.5         46.2         65.7         22.0         33.5         190         1.           M         1         2         11.6         6.85         15.4         46.9         68.5         22.5         32.8         270         0.           F         1         2         11.1         6.84         15.4         46.9         68.5         22.5         32.8         270         0.           F         1         2         24.1         6.98         15.3         44.9         77.9         25.2         34.5         492         27.2           F         1         2         24.1         5.72         14.4         41.7         72.9         25.2         34.5         18.3         18.3         18.8         45.9         65.8         22.6         34.4         32.2         11.3         44.97         67.43         23.03         34.1         29.2         17.0         23.8         33.9         22.3         11.2         90.3           F         2         2         10.7         5.84         13.9         41.5         41.0         67.9         25.94         11.7         290.3         11.2 <th>Animal Number</th> <th>Sex</th> <th>Group</th> <th>Day</th> <th>WBC</th> <th>RBC</th> <th>нсв</th> <th>нст</th> <th>MCV</th> <th>МСН</th> <th>МСНС</th> <th>PLT</th> <th>RET</th>	Animal Number	Sex	Group	Day	WBC	RBC	нсв	нст	MCV	МСН	МСНС	PLT	RET
M         1         2         11.6         6.85         15.4         46.9         68.5         22.5         35.3         28.6         70         0.           F         1         2         11.1         6.54         15.4         45.6         66.7         23.5         35.3         285         0.           F         1         2         8.6         7.0         15.7         45.9         65.9         22.4         34.5         49.5         66.7         22.2         44.5         45.9         65.0         22.4         34.4         32.2         11.2         34.4         32.2         11.2         34.4         32.2         11.2         34.4         32.2         11.2         34.4         32.2         11.7         34.4         32.2         11.7         34.4         32.2         11.2         34.4         32.2         11.2         34.4         32.2         11.2         34.4         32.2         11.2         34.4         32.2         11.2         34.4         32.2         11.2         34.4         32.2         11.2         34.4         34.4         34.2         34.4         34.2         34.2         34.2         34.2         34.2         34.2         34.2         <	89A00012	Σ	٦	2	2.	0.	5.	9	5.	2.		9	•
M         1         2         11.1         6.54         15.4         43.6         66.7         23.5         35.3         285         0.           F         1         2         21.1         5.70         15.7         45.5         65.0         22.4         34.5         48.5         15.2           F         1         2         24.1         5.72         15.3         45.9         65.8         22.6         34.4         32.2         1.83         1.1           M         2         11.3         6.687         15.3         44.9         67.43         22.6         34.4         32.2         1.2           M         2         2         10.0         6.93         15.8         46.9         67.43         22.08         33.9         22.3         11.2         30.3         11.2         30.3         11.2         30.3         11.2         30.3         11.2         30.3         11.2         30.3         11.2         30.3         40.3         40.3         67.4         32.0         32.0         32.2         32.3         41.3         11.2         30.3         32.3         32.3         32.3         41.3         41.3         41.3         41.3         41.3	89A00042	Σ	_	2	7	8	5.	9	8	2.	2.	7	•
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	89A00058	Σ	_	2	<del>,</del>	.5	5.	<u>~</u>	9	€.	5.	$\infty$	•
F         1         2         24.1         5.72         14.4         41.7         72.9         25.2         34.5         492         2.           F         1         2         11.3         6.98         15.8         45.9         65.8         22.6         34.4         32         1.           M         2         11.3         6.687         15.37         44.97         67.43         23.03         34.17         290.3         1.           M         2         2         10.0         6.93         15.8         46.6         67.3         22.8         33.9         22.3         1.           F         2         2         10.7         5.84         13.9         41.5         71.0         23.8         33.9         22.3         1.         71.0         23.8         33.9         22.3         112.9         0.0         112.9         0.0         112.9         0.0         112.9         0.0         112.9         0.0         112.9         0.0         112.9         0.0         112.9         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 </td <td>89A00022</td> <td>Ĺ</td> <td>7</td> <td>2</td> <td>8</td> <td>0.</td> <td>5.</td> <td>5.</td> <td>5.</td> <td>2.</td> <td>4</td> <td><math>\infty</math></td> <td></td>	89A00022	Ĺ	7	2	8	0.	5.	5.	5.	2.	4	$\infty$	
F         1         2         11.3         6.98         15.8         45.9         65.8         22.6         34.4         322         1.           M         2         2.50         0.507         0.50         1.95         2.94         1.17         0.88         112.9         0.           M         2         2         10.0         6.93         15.8         46.6         67.3         22.8         33.9         22.3         11.29         0.           M         2         2         10.0         6.93         15.8         46.7         64.9         21.8         33.5         22.3         11.29         0.           F         2         2         10.0         6.93         15.8         46.7         64.9         21.5         33.8         41.1         0.88         112.9         0.           F         2         2         10.0         6.93         15.1         45.4         68.3         22.7         33.8         41.3         11.29         0.           F         2         2         10.2         15.5         45.2         64.4         22.1         34.3         31.8         41.3         11.2           F         2<	89A00038	'n	7	2	4.		4.	<u>-</u>	2.	5.	4	9	•
<ul> <li>M. 2</li> <li>M. 2</li> <li>M. 2</li> <li>M. 2</li> <li>M. 3</li> <li>M. 4</li> <li>M. 5</li> <li>M. 5</li> <li>M. 6</li> <li>M. 7</li> <li>M. 8</li> <li>M. 10</li> /ul>	89A00072	Ŀı	H	2		6.	5.	5.	5.	2.	4	2	•
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Mean				13.1	.68	5.3	4.9	7.4	3.0	4.1	90.	٣.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Std Dev				5.5	.50	0.5	1.9	2.9	1.1	8.0	12.	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	89A00003	Σ	5	2	0	6.	5.	9	7	2.	س	$\sim$	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	89A00009	Σ	7	2	0	ω.	3.	Ξ.	1.	3,		2	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	89A00047	Σ	2	2	7.	. 2	5.	9	4.	7	3.	7	
F       2       2       13.3       7.02       15.5       45.2       64.4       22.1       34.3       316       0.         F       2       2       9.5       6.88       15.8       46.7       67.9       22.1       34.3       316       0.         9       9.5       6.783       15.27       45.35       67.30       22.65       33.67       306.3       1.         2       0.2       0.482       0.72       2.00       2.42       0.79       0.41       63.5       0.         M       3       2       9.8       6.82       15.5       47.1       68.1       22.7       32.8       32.0       0.         M       3       2       12.0       6.52       15.4       47.1       68.1       22.9       33.5       32.8       0.         F       3       2       12.0       6.52       15.4       43.7       67.0       23.6       35.2       32.8       0.         F       3       2       14.0       6.83       15.1       44.5       68.0       23.1       33.9       32.1       1.         F       3       2       14.0       6.81       45.8 </td <td>89A00031</td> <td>Ŀ</td> <td>2</td> <td>2</td> <td>٠</td> <td>9.</td> <td>5.</td> <td>5.</td> <td>80</td> <td>2.</td> <td>~</td> <td><math>\infty</math></td> <td></td>	89A00031	Ŀ	2	2	٠	9.	5.	5.	80	2.	~	$\infty$	
F 2 2 9.5 6.88 15.8 46.7 67.9 23.0 33.8 413 1.  9.95 6.753 15.27 45.35 67.30 22.65 33.67 306.3 1. 2.02 0.482 0.72 2.00 2.42 0.79 0.41 63.5 0.  M 3 2 9.8 6.82 15.5 47.3 69.4 22.7 32.8 320 0.  M 3 2 12.0 6.52 15.4 43.7 67.0 23.6 33.5 304 0.  F 3 2 10.0 6.54 15.1 44.5 68.0 23.1 33.7 328 1.  F 3 2 14.0 6.81 15.7 45.8 68.05 23.1 33.9 32.9 0.  10.50 6.738 15.55 45.88 68.05 23.08 33.90 309.0 0.  2.12 0.165 0.27 1.50 0.89 0.30 0.81 28.8 0.	89A00063	Ŀı	7	2	س	0.	5.	5.	4.	2	4.	_	•
M       3       2       9.95       6.753       15.27       45.35       67.30       22.65       33.67       306.3       1         M       3       2       9.8       6.82       15.5       47.3       69.4       22.7       32.8       320       0.         M       3       2       8.5       6.91       15.8       47.1       68.1       22.9       33.5       304       0.         F       3       2       12.0       6.52       15.4       47.1       68.1       22.9       33.5       324       0.         F       3       2       12.0       6.52       15.4       43.7       67.0       23.6       35.2       328       0.         F       3       2       10.0       6.54       15.1       44.5       68.0       23.1       33.9       32.8       1.         F       3       2       14.0       6.81       15.7       45.8       68.0       23.1       34.3       25.3       0.         10.50       6.738       15.55       45.88       68.05       23.08       33.90       30.90       0.         2.112       0.165       0.27       1.50	89A00066	ш	7	2	•	ω.	5.	9	٠,	ж		<del></del>	
M       3       2       9.8       6.82       15.5       47.3       69.4       22.7       32.8       320       0.         M       3       2       9.8       6.82       15.5       47.1       68.1       22.7       32.8       320       0.         M       3       2       8.5       6.91       15.8       47.1       68.1       22.9       33.5       30.4       0.         F       3       2       12.0       6.52       15.4       47.1       68.1       22.9       33.5       32.8       0.         F       3       2       8.7       6.83       15.8       46.9       68.6       23.1       33.9       32.8       1.         F       3       2       10.0       6.54       15.1       44.5       68.0       23.1       33.9       32.1       1.         F       3       2       14.0       6.81       15.7       45.8       67.2       23.1       34.3       25.3       0.         10.50       6.738       15.55       45.88       68.05       23.08       33.90       30.90       0.         2.112       0.165       0.27       1.50 <t< td=""><td>Mean</td><td></td><td></td><td></td><td>9.6</td><td>.75</td><td>5.2</td><td>5.3</td><td>7.3</td><td>2.6</td><td>۳.</td><td>06.</td><td></td></t<>	Mean				9.6	.75	5.2	5.3	7.3	2.6	۳.	06.	
M       3       2       9.8       6.82       15.5       47.3       69.4       22.7       32.8       320       0.         M       3       2       8.5       6.91       15.8       47.1       68.1       22.9       33.5       304       0.         M       3       2       12.0       6.52       15.4       47.1       68.1       22.9       33.5       32.8       0.         F       3       2       10.0       6.52       15.4       46.9       68.6       23.1       33.7       328       1.         F       3       2       10.0       6.54       15.1       44.5       68.0       23.1       33.9       32.8       1.         F       3       2       14.0       6.81       15.7       45.8       67.2       23.1       34.3       25.3       0.         10.50       6.738       15.55       45.88       68.05       23.08       33.90       309.0       0.         2.12       0.165       0.27       1.50       0.89       0.30       0.81       28.8       0.					0 .	. 48	0.7	2.0	٠ 4	0.7	•	~ <u>`</u>	
M       3       2       8.5       6.91       15.8       47.1       68.1       22.9       33.5       304       0.         M       3       2       12.0       6.52       15.4       43.7       67.0       23.6       35.2       328       0.         F       3       2       10.0       6.83       15.8       46.9       68.6       23.1       33.7       328       1.         F       3       2       10.0       6.54       15.1       44.5       68.0       23.1       33.9       321       1.         F       3       2       14.0       6.81       15.7       45.8       67.2       23.1       34.3       25.3       0.         10.50       6.738       15.7       45.88       68.05       23.08       33.90       309.0       0.         2.12       0.165       0.27       1.50       0.89       0.30       0.81       28.8       0.	89 <b>A</b> 00002	Σ	m	5	•	∞.	5.	7.	9.	2.	2.	320	•
M       3       2       12.0       6.52       15.4       43.7       67.0       23.6       35.2       328       0.         F       3       2       8.7       6.83       15.8       46.9       68.6       23.1       33.7       328       1.         F       3       2       10.0       6.54       15.1       44.5       68.0       23.1       33.9       321       1.         F       3       2       14.0       6.81       15.7       45.8       67.2       23.1       34.3       25.3       0.         10.50       6.738       15.55       45.88       68.05       23.08       33.90       309.0       0.         2.12       0.165       0.27       1.50       0.89       0.30       0.81       28.8       0.	89A00045	Σ	m	7		6.	5.	7.	8	2 .	ب	304	
F 3 2 8.7 6.83 15.8 46.9 68.6 23.1 33.7 328 1. F 3 2 10.0 6.54 15.1 44.5 68.0 23.1 33.9 321 1. F 3 2 14.0 6.81 15.7 45.8 67.2 23.1 34.3 253 0. 10.50 6.738 15.55 45.88 68.05 23.08 33.90 309.0 0. 2.12 0.165 0.27 1.50 0.89 0.30 0.81 28.8 0.	89A00052	Σ	٣	2	2.	.5	5.	ن	7.	ن	5.	328	•
F 3 2 10.0 6.54 15.1 44.5 68.0 23.1 33.9 321 1. F 3 2 14.0 6.81 15.7 45.8 67.2 23.1 34.3 253 0. 10.50 6.738 15.55 45.88 68.05 23.08 33.90 309.0 0. 2.12 0.165 0.27 1.50 0.89 0.30 0.81 28.8 0.	89A00025	Ŀı	٣	2	•	ω.	5.	9	α	<u>.</u>	ج	328	•
F 3 2 14.0 6.81 15.7 45.8 67.2 23.1 34.3 253 0. 10.50 6.738 15.55 45.88 68.05 23.08 33.90 309.0 0. 2.12 0.165 0.27 1.50 0.89 0.30 0.81 28.8 0.	89A00033	ы	Υ	2	0	. 5	5.	4.	8	3.	<u>.</u>	32.1	•
n Dev 10.50 6.738 15.55 45.88 68.05 23.08 33.90 309.0 0.	89A00064	Ŀ	m	~	4.	ω.	5.	5.	7.	ж •	4.	253	•
Dev 2.12 0.165 0.27 1.50 0.89 0.30 0.81 28.8 0.	Mean				10.5	.73	5.5	5.8	8.0	3.0	~	309.0	
					2.1	. 16	0.2	1.5	0.8	0.3		78.8	

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1.27 1.37 1.18 1.2 2.4 0.9 1.0 1.6 2.0 2.7 0.6 1.3 1.1 1.6 1.4 1.0 1.0 RET 363.3 63.5 301.7 PLT S 242 292 326 277 355 318 422 333 307 350 367 386 245 424 388 394 343 33.65  $33.85 \\ 0.19$ 33.92 0.31 34.2 32.9 34.6 33.1 33.7 33.8 33.9 33.6 34.1 34.1 33.7 33.9 33.9 33.5 34.1 22.40 0.92 23.05 0.85 22.95 0.54 22.3 23.6 22.7 22.9 22.6 23.6 24.1 21.6 22.3 21.6 22.5 22.5 24.0 22.7 22.2 24.2 22.9 22.9 MCH 66.57 2.23 68.15 2.44 67.67 1.34 70.7 65.7 64.3 65.2 66.7 71.1 67.0 66.0 71.1 68.1 66.2 69.6 67.0 68.3 66.4 47.47 47.20 44.8 51.7 41.0 47.7 49.5 50.0 46.0 44.6 49.9 47.5 444.2 448.9 446.6 445.4 50.0 46.99 5.78 1.01  $16.07 \\ 0.77$ 6.02 16.9 15.6 15.0 17.0 16.0 14.9 16.6 15.8 15.2 16.4 15.3 17.0 14.2 15.8 16.7 7.060 6.962 0.136 6.973 7.03 6.86 6.75 7.02 6.98 6.68 7.02 6.95 6.64 7.25 7.30 6.34 7.87 6.38 7.32 7.42 7.03 RBC 11.40 10.57 1.7011.73 2.12 14.6 10.8 10.0 10.3 10.4 14.3 10.9 10.2 14.3 9.4 9.3 8.7 111.5 111.3 13.1 9.9 8.9 WBC Бау 000000 77777 22222 Group 000000 4444 202020 Sex ΣΣΣμιί ΣΣΣωωω ΣΣΣωωω 89**A**00056 89**A**00020 89A00051 89A00029 89A00065 89A00069 89A00018 89A00048 89A00039 89A00046 89A00050 89A00004 89A00027 89A00007 89A00041 89A00071 89A00011 89A00061 Animal Number Std Dev Std Dev Std Dev Mean Mean

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Animal Number	Sex	Group	Бау	WBC	RBC	нсв	HCT	MCV	МСН	МСНС	PLI	RET
89 <b>A</b> 00019	Σ	7	5	س	$\infty$	5.	9	7.	2.	ω.	153	
89A00043	Σ	7	5	11.3	5.96	13.9	41.5	69.7	23.3	33.5		1.0
89A00054	Σ	7	2	-	ω.	~	ь Э	2.	2.	5.	284	
89A00030	Ŀ	7	2	α	٠.	9	8	5.	2.	$\sim$	228	•
89A00035	ĹĿ	7	2	•	7.	S	7.	7	<u>.</u>	$\sim$	305	•
89 <b>A</b> 00070	لد	1.	2	•	4.	4	$\overset{\sim}{\cdot}$	ж Э	2 .	~	322	•
Mean				6.	. 60	0.	. 4	\mathcal{\pi}.		1 .	4.	4
Std Dev				1.99	0.483	1.02	3.54	3.13	99.0	11.0	72.8	0.93
89 <b>A</b> 00001	Σ	∞	2		∞.	5.	4	4	2.	<i>س</i>	124	
89A00013	Σ	80	2	5.	0.	5.	7.	9	2.	~	269	•
89A00053	Σ	80	2	0	ω.	ب	$\infty$	5.	<u>ج</u>	6.	399	
89A00040	Ĺ	æ	2	16.0	5.73	13.3	38.8	67.7	23.2	34.3	307	1.0
89A00062	بعا	8	2	ω	۲.	5.	5.	9	2	<u>.</u>	295	٠
89 <b>V</b> 000 <b>8</b> 8	ĹĿ	30	2	•	. 4	4	2.	9	2 .	4.	566	•
Mean				4	.43	5.	9.	J w.	9	2.	276.7	1.43
Std Dev				3.47	0.548	06.0	3.63	<del></del>	0.61	1.03	89	
89 <b>A</b> 00005	Σ	6	2		ί.	5.	5.	7	$\sim$		508	7.5
89A00049	Σ	6	2	6.4	6.28	14.4	43.1	9.89	22.9	33.4	294	0.5
89A00055	Σ	6	$\sim$		$\infty$	9	9	7 .	$\overset{\sim}{\cdot}$	4.	167	1.0
89A00026	ĵ.	6	7		. 5	4.	2.	4.	7	<u>ب</u>	275	() . 7
89A00037	ī.,	S	2		9.	<del>ب</del>	0.	1.	4.	4.	475	<u>.</u> .
89 <b>A</b> 00060	æ	6	$\sim$		$\widetilde{\cdot}$	4.	4		æ.	~ ∵	474	·,·
Mean				8.65	6.378	14.77	43.62	68.47	23.20	33.85	7.466	1.6
Std Dev				C		α	-	~		( )	9 001	-

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Animal	Sex	Sex Group Day	Daγ	5EG	HAN	EOS	BAS	LYM	MON	ATL	NRBC	РТ	APP'T
Number	Σ	10	2	65	0	5	0	26	4	0 (	0	1.2	15.0
89A00044	Σ	10	2	1.1.	0	<b>4</b>	<u> </u>	14	<i>د</i> ر د	~ <	<b>)</b>	ر دن دن	15.4
89A00057	Σ	10	2	75	0	9	0 :	14	<b>-</b> (	<b>4</b> ~	<b>)</b>	) c	0.4
89A00034	뀨	10	2	79	<u></u>	<b>~</b> ) (	<b>)</b> (	0 <b>-</b> 0	) C	) <del>-</del>	) C	2.89	
89A00059	<u>1</u> ,	10	7	55	<del>ت</del>	<b>.</b>	<b>)</b> ;	**************************************		- ເ	o ~	2.99	C . V .
89 <b>A</b> 00067	'n	10	2	07		<b>o</b>	0	7.0	<b></b> 1	1	^		
Mean Std Dev				70.2	0.2	3.5	0.0	21.5	2.7	2.0	0.5	18.02	15.73
sta nev												}	

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	SEG	BAN	FOS	BAS	LYM	MON	ATL	NRBC	Ld	APPT
89 <b>A</b> 00012		٦	7	70	0	m	၁		m		0	•	9.
89A00042		-	7	89	0	2	0		9	٣	0		. 2
89A00058	Σ	~	2	83	0	0	0	14	7	2	0	7.5	16.8
89A00022		7	7	7.1	0		0		5	0	7	•	9
89A00038			7	84	0	7	0	∞	١	0		•	4
89 <b>A</b> 00072		٦	7	69	0	7	0	22		1	0	•	5.
Mean				.	.		١.	.			.	٣.	.
Std Dev				7.3	0.0	2.5	0.0	9	2.6	1.2	0.5	1.45	1.73
89 <b>A</b> 00003	Σ	2	7	64	0	4	0		2	г	0		9.
89A00009	Σ	7	2	7.1	-	5	0		œ	0	0		ω
89A00047	Σ	2	7	69	0	$\sim$	0	26	2	1	0	9.5	15.6
89A00031	Ŀ	7	7	1.9	0	6	0		٣	-	0		9
89A00063	Ŀ	2	7	78	0	9	0		٣	0	0		9
89A00066	Ĺ	2	5	74	0	0	0		-	0	-	•	5.
Mean					١.				.	.	1 .		7.
Std Dev				5.0	0.4	3.0	0.0	6.4	2.5	0.5	0.4	1.60	1.64
89A00002		æ	2	99	0	⊶	0		4	0	0	•	· α
89A00045	Σ	3	2	72	0	4	0	22	2	0	0	9.5	17.2
89A00052		$\sim$	2	78	0	0	0		9	<b>.</b> →	0	•	7.
89A00025		3	2	61	0		0		2	m	1	•	$\infty$
89A00033		m	2	97	0	0	0		0	0	0	•	
89A00064		m	2	81	Ö.	н	0		1	0	0	•	$\overset{\cdot}{x}$
Mean				72.3	0.0	1.2	0.0	23.3	2.5	0.7	0.2	8.68	17.52
Std Dev													-

APPT

7.88 8.03 1.64 7.2 10.5 6.7 6.2 7.6 10.0 8.8 6.8 7.2 d.6 6.3 10.5 INTC 13 0.2 0.5 0.5 NRBC 00000 00700 0000 1.0 1.0 1.8 ATL 00000 00000 0 3 3 5 1 5 3.6 2.5 2.5 HEMATOLOGY MON 2 2 3 3 0 m -- m m m -2 30.0 27.2 11.2 23.3 LYM 23 28 24 24 35 39 31 49 26 18 23 20 27 28 9 18 31 30 24 0.0 0.0 0.0 BAS (cont.): 00000 000000 00000 2.2 1.8 1.7 EOS 775807 30231 H 0.0 0.0 0.0 Appendix 00000 00000 000000 63.8 67.5 70.7 SEG 73 60 66 57 57 59 72 75 68 73 67 88 772 63 65 69 Day 000000 22222 22222 Group 22222 000000 Sex ΣΣΣωωω ΣΣΣωμω ΣΣΣωωω 89A00018 89A00048 89A00056 89A00020 89A00039 89A00004 89A00011 89A00046 89A00027 89A00065 89A00069 89A00007 89A00050 89A00051 89A00029 89A00071 89A00041 89A00061 Animal Number Std Dev Std Dev Std Dev Mean

17.70 2.30

17.0 17.2 17.3 15.2 17.0

18.2 TNTC 20.8 18.2 14.5

16.65 0.81

Mean

16.*2* 14.0 20.0 18.8 14.0 17.5

16.2

16.75

7.48

HEMATOLOGY
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Animal Number	Sex	Group	Day	SEG	BAN	EOS	BAS	ГХМ	MON	ATL	NRBC	PT	APPT
89A00019	Σ	7	7		0	4	0		7	-	0		<b>x</b>
89A00043	Σ	7	7		0	9	0		4	0	0	•	. 7
89A00054	Σ	7	7	77	0	Н	0	21	-	0	0	8.4	24.8
89A00030	Œ	7	7		0	-	0		2	0	0	•	5.
89A00035	Ĺ	7	7		0	2	0		4	2	0	•	4
89 <b>A</b> 00070	ſτι	7	7		7	m	0		2	0	0	•	9
Mean				1 .	1 .	1 .	.			1 .	.	5.	
Std Dev				5.5	0.4	2.1	0.0	4.5	2.2	0.8	0.0	1.30	3.76
89 <b>A</b> 00001	Σ	8	2	99	2	М	0		m	2	0	•	· 32
89A00013	Σ	89	2	58	0	2	0	34	9	0	0	7.0	20 2
89A00053	Σ	80	7	7.0	0	9	0		æ	~	0	•	9.
89A00040	ĹĿı	80	7	19	_	m	0		m	0	0	•	· 0
89 <b>A</b> 00062	ш	80	2	89	0	0	0		2	2	0	•	۲.
89 <b>V</b> 000 <b>8</b> 8	Ĺτι	80	2	75	0	0	O		0	0	0	•	1.
Mean						•	} .	26.2	•	1 .	1 .	5.	7.
Std Dev				5.6	0.8	2.3	0.0		1.9	1.0	0.0	2.76	1.53
89 <b>A</b> 00005	Σ	6	2		0	7	0		4	8	0	•	۲.
89A00049	Σ	6	2	88	0	0	0	10	7	0	0	10.0	16.0
89A00055	Σ	6	2		0	m	0		m	2	0	•	5.
89A00026	ĹĿij	6	7		0	<b>ታ</b>	0		7	٦,	0	•	6
89A00037	ĹĿ	6	7		0	0	0		14	0	0	•	<u>.</u>
89A00060	ĹŁ	6	7		0		0		7	ĸ	0	•	ټ
Mean				68.7	0.0	1.5	0.0	23.8	4.5	1.5	0.0	8.68	17.33
7 7 7				,_								-	05

Appendix H (cont.): HEMATOLOGY

												-
Animal	Sex	Sex Group Day	Day	WBC	RBC	нсв	HCT	MCV	МСН	MCHC	PLT	RET
T SAME												
89A00006	Σ	10	m	8.0	6.73	15.4	45.4	67.4	22.9	33.9	283	0.7
89A00044	Σ	10	m	16.1	5.88	14.6	40.0	68.1	24.8	36.5	264	0.7
89A00057	Σ	10	m	7.0	7.08	16.2	48.5	68.5	22.9	33.4	224	0.1
89800034	لعا	10	m	14.2	7.23	16.6	48.5	67.1	23.0	34.2	410	1.1
89A00059	<u>[</u>	10	m	12.2	6.41	14.0	42.0	65.6	21.8	33.3	258	6.0
89A00067	لد	10	κ	10.2	7.75	18.0	53.5	0.69	23.2	33.6	351	3.9
Mean Std Dev				11.28	6.847	15.80	46.32	67.62	23.10	34.15	299.2	1.23

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Бау	WBC	RBC	нсв	нст	MCV	МСН	МСНС	PLT	RET
89800012	Σ	_	CC)	2	7	5.	5	m	-	<u>س</u>	$\infty$	
89A00042	Σ		) M	10.3	99.9	15.7	45.1	67.7	23.6	34.8	251	0.3
89A00058	Σ	-	m	ω	.5	4	ش	7.	2.	ж	5	
89A00022	Ţ		٣	0	. 2	5.	7.	9	<u>.</u>	٣.	$\sim$	
89A00038	Ţ	, <b>-</b> 1	٣	2.	9.	4.	-	2.	4.	4.	5	•
89 <b>A</b> 00072	ĮΉ		33	i	. 2	9	α	7.	2.	4.	4	•
Mean				7.	74	\m.	L.	4.	2.8	0.	88.	0.
Std Dev				1.64	0.610	0.88	2.67	2.96	1.26	0.61	97.8	0.64
89 <b>A</b> 00003	Σ	2	m		9.	4.	4	9	2	ς:	2	
89A00009	Σ	2	m	•	. 2	4.	۳,	8.	$\tilde{\omega}$	ب	$\sim$	
89A00047	Σ	2	3	6.9	7.00	15.6	45.6	65.1	22.3	34.2	259	0.2
89A00031	Ŀ	7	$\sim$	•	9.	5.	4.	7.	ن	4	6	•
89A00063	Ŀ	7	m		۲.	4	س	4	_;		6	•
89 <b>A</b> 00066	ŢĿ	2	3	3.	ω.	5.	9	&	2.	ج	$\infty$	•
Mean				7.	7.0	⁻.	9.	9.	.5	6.	96.	6.
Std Dev				2.59	0.246	0.45	1.39	1.82	0.58	0.41	54.9	0.75
89 <b>A</b> 00002	Σ	m	m	•	٣.	4	8	6	3.	ж	$\infty$	•
89A00045	Σ	m	m	7.1	6.47	15.3	43.4	67.1	23.6	35.3	394	0.2
89A00052	Σ	m	3	•	ω.	5.	9	ω	2.	ش	9	٠
89A00025	يعا	3	٣	•	4.	5.	ж	7.	3.	4.	0	٠
89A00033	Ē4,	m	3	•	4.	4	3.	ω	2.	2.	6	•
89A00064	Ĺτ	٣	٣	•	7.	5.	4	9	Э.	4	0	•
Mean				8	. 54	0.	٣.	7	10	0.	291.2	
Std Dev				1.20	0.195	0.47	1.23	0.88		1.09		0.34

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	RBC	нсв	HCT	MCV	MCH	мснс	PLT	RET
89A00018	Σ	4.	က	۳,	٣.	٦.	4	٠		4.	<del></del> (	•
89A00048	ΣΣ	4r 4	m m	11.6 8.9	7.03	15.4	44.6 43.4	63.4 65.8	21.9	34.5	409 433	0.4
89 <b>A</b> 00020	: L	. 4	) M		$\infty$	5.	4	5.			$^{\circ}$	
89A00039	įъ	4	m	6	٣.	9	6	9	2.	ж Э	<del></del>	•
89A00071	ĹŦ	4	٣	•	9.	5.	2	7.	2.	Э.	$\circ$	٠
Mean				<u>ا</u> ٣.	.80	.2	-:	4.		8.	96.	4
Std Dev				1.74	0.357	99.0	1.98	2.20	0.7	0.46	47.8	0.67
89A00004	Σ	5	m	0	6.	9	9.	0	3.	Э.	<del>,</del>	
89A00011	Σ	2	3	$\sim$	9.	4.	4.	9	2 .	<u>ج</u>	$\infty$	•
89A00046	Σ	2	٣	9	4.	4	2	5.	2 .	4.	4	•
89A00027	Ŀ	5	٣	10.2	6.98	16.9	49.4	70.8	24.2	34.2	279	1.2
89A00065	Ĺ	S	٣	S	. 6	5.	5.	7.	2.	ک	~	•
89A00069	Ŀ	5	Ж		. 2	9	7 .	. 9	2.	4	$\vdash$	•
Mean				9	.81	7	2	8.	0	9.	-	~.
Std Dev				3.01	0.297	1.03	2.96	2.26	0.81	0.45	55.5	0.62
89A00007	Σ	9	Μ	•	. 3	4.	۲,	5.	2	4	4.37	
89A00050	Σ	9	m	10.9	7.05	17.2	48.1	68.2	24.4	35.8	346	1.5
89A00051	Σ	9	Υ		9.	5.	5.	ω	<u>ج</u>	ن	286	
89A00029	Ŀ	9	$\sim$	ж Э	ж.	4	2.	. 9	2.	4.	434	
89A00041	F	9	$\sim$	٠	. 2	9	ω	9	2	$\tilde{\Xi}$	348	
89A00061	Ĺτι	9	m		0.	9	7	7.	<u>.</u>	4.	272	0.1
Mean				5	76	.5	j .	67.15	23.02	12	₹5.4.8	1.45
Std Dev				1.89	0.396	٦	3.08	~	. 7	0	· :	₹.

1.0 0.2 0.7 0.7 1.2

0.80

Mean

 $0.72 \\ 0.19$ 

1.0 0.8 0.5 0.8

256.0 55.3 285.2 66.2 276.0 87.4 228 229 376 361 263 254 154 301 243 303 257 278 196 309 181 261 422 287 34.15 0.94 33.83 0.28 33.97 0.63 30.4 35.7 33.2 34.6 33.6 33.7 33.4 34.1 33.7 34.0 33.3 34.9 33.8 33.6 33.6 MCHC 22.98 1.27 22.62 0.51 23.08 22.22.2 24.5 21.0 22.7 223.8 23.8 21.8 22.3 23.0 23.1 22.5 23.0 22.5 23.6 22.7 21.4 24.7 23.6 HEMATOLOGY 67.23 2.74  $66.85 \\ 1.36$ 67.95 2.66 66.4 68.6 63.1 65.7 65.7 68.7 64.7 66.6 67.5 68.7 66.2 67.6 67.7 67.2 63.7 42.00 42.47 42.13 44.6 38.4 39.8 45.7 41.7 46.9 45.8 40.2 36.8 42.6 43.6 40.1 42.9 41.1 40.8 44.3 (cont.): 14.33 0.92 14.37 .30 14.9 13.7 13.2 15.8 14.0 15.8 15.3 13.7 12.4 14.5 4.5 4.0 3.8 4.1 9.0 HGB 14. 0 6.362 0.668 255 511 H 208 308 6.71 5.60 6.30 6.96 6.96 5.88 7.25 6.87 5.95 5.36 6.44 6.30 6.45 5.93 6.38 6.45 6.32 RBC Appendix 9 90 11.55 2.86 10.33 9.25 13.6 9.6 11.5 15.6 7.5 12.9 6.9 10.6 6.8 6.8 8.0 7.0 14.5 9.8 9.8 15.5 7.0 Day m m m m m mm m m m mm m m m mGroup c $\sigma\sigma\sigma\sigma\sigma\sigma\sigma$  $\infty$   $\infty$   $\infty$   $\infty$   $\infty$ Sex ΣΣΣωμω ΣΣΣμμμ ΣΣΣμμμ 89A00062 89A00068 89A00019 89A00043 89A00054 89A00030 89A00035 89A00070 89A00013 89A00053 89A00040 89A00005 89A00049 89A00055 89A00026 89A00037 89A00001 89A00060 Mean Std Dev Mean Std Dev Animal Number Std Dev

0.87

1.0 0.7 0.4 1.3 0.8

RET

Appendix H (cont.): HEMATOLOGY

Animal	Sex	Sex Group Day	Dау	SEG	BAN	EOS	BAS	LYM	MOM	ATL	NRBC	ΡŢ	APPT
130000													
89400006	Σ	10	m	10	0	4	0	18	9	2	0	6.7	16.8
89A00044	Σ	10	m	19	0	m	0	24	9	0	0	0.6	15.2
89A00057	Σ	10	æ	65	0	1	0	33	0	<del>,</del>	0	9.3	
89A00034	ا (د	10	m	72	0	Н	0	25			0	8. <sub>8</sub>	-
89A00059	י נבי	10	'n	69	0	2	0	27	7	7	0	7.6	16.5
89A00067	لد	10	3	58	0	е	0	37	2	0	0	8.8	_
Mean				8.99	0.0	2.3	0.0	27.3	2.7	0.8	0.0	8.37	16.43
Std Dev				5.0	0.0	1.2	0.0	6.8	2.7	0.8	0.0	1.00	1.30

				Appendix		H (cont.)	t.):	HEMATOLOGY	LOGY			!	
Animal Number	Sex	Group	Бау	SEG	BAN	EOS	BAS	LYM	MON	ATL	NRBC	PŢ	APPT
89800012	Σ		۳,		^		0		2	2	O		4
89A00042	Σ	, ,	ı m	89	0	5	0	27	m	0	0	8.2	14.2
89A00058	Σ	· <b></b>	m		0	1	0		$\sim$	-	~		0
89A00022	(E4	-	Э		0	2	0		2	2	0	•	₹.
89A00038	Œ	-	٣		0	<del>, ,</del>	0		2	0	0	•	7.
89 <b>A</b> 00072	ĹĿ	7	m		0	-	0		4	0	0	•	ω
Mean				1 .	.					1 .	1 .	4.	٠.
Std Dev				5.9	0.8	0.5	0.0	5.9	0.8	1.0	0.4	0.74	2.3
89 <b>A</b> 00003	Σ	2	m	75	0	2	0		4	4	П		0
89A00009	Σ	2	$\epsilon$	72	2	5	0		٣	4	0		
89A00047	Σ	2	٣	68	0	4	0		9	4	0	•	7
89A00031	Ĺ	2	$\epsilon$	68	0	7	0	21	m	1	0	10.8	16.6
89A00063	Ē	7	m	75	_	5	0		1	0	0		~
89 <b>A</b> 00066	দে	2	e	85	1	0	0		0	0	0		18.8
Mean							1 .	.		1 .	1 .	ω,	17.80
Std Dev				6.3	0.8	2.5	0.0	3.3	2.1	2.0	0.4	1.63	1.41
89 <b>A</b> 00002	Σ	m	m		0	Н	0		æ	0	0	•	TNTC
89A00045	Σ	٣	~		0	2	0		2	4	2	•	2.
89A00052	Σ	3	m	62	0		0	30	5	7	7	10.5	18.8
89A00025	Ŀ	٣	m		0	4	0		2	5	0	0	د
89A00033	ы	3	Υ		0	0	0		2	2	0	•	ς.
89A00064	Ŀı	Э	m		7	7	0		7	-	0	•	18.0
Mean				72.2	0.2	1.5	0.0	19.7	4.2	2.3	0.5	10.60	18.94
Std Dev				•	0.4	•	•	•	•	•	•	•	2.41

Appendix H (cont.): HEMATOLOGY

			:		i i	304	0 4 0	MA	NOM	N.P. I	Cadia		
Number	oex oex	dnoss	Day	250	DAIN	202	DAO	LIM	MOIN	All	INRBC	7.7	APPT
89 <b>A</b> 00018	Σ	4	m	57	0	2	0		4	-	2	•	5.
89A00048	Σ	4	٣	74	0		0	20	m	2	0	8.0	16.5
89A00056	Σ	4	æ	49	_	2	0		സ	<del>, ,</del>	0	•	0.
89A00020	لغا	4	m	49	_		0		3	2	0	•	5.
89A00039	Œ,	4	3	74	0	7	0		2	_	0	•	9
89 <b>A</b> 00071	<u>54</u>	4	m	<i>L</i> 9	1	7	0		7	-	0	•	7.
Mean				;		.	1 .				1 .	5.	1
Std Dev				11.6	0.5	0.5	0.0	9.6	1.4	1.6	0.8	1.00	1.76
89A00004	Σ	S	က		0	٣	0		5	2	7	•	7.
89A00011	Σ	2	3		0	<b>,</b>	0		2	5	-	٠	3.
89A00046	Σ	2	3		0	2	0		9	٣	0	•	7.
89A00027	Ŀ	2	٣	82	_	0	0	14	1	2		10.5	14.5
89A00065	፲	5	٣		0	_	0		J	0	0	•	9
89A00069	نعا	2	m		0	0	0		-	0	0	•	7.
Mean				8	1 .	] .	٠ ،	5.	1 .			₹.	
Std Dev				10.3	0.4	1.2	0.0	10.2	2.3	1.9	0.5	3.07	1.70
89 <b>A</b> 00007	Σ	9	ε		0	0	0		m	0	0	•	17.2
89A00050	Σ	9	٣	75	0	3	0	14	7	1	0	10.0	16.0
89A00051	Σ	9	$\sim$		0	<b>~</b>	0		m	~	0	٠	14.6
89A00029	Ŀı	9	3		0	2	0		0	m	0	•	
89A00041	Ŀı	9	$\sim$		0	0	0		_	٣	0	٠	•
89 <b>A</b> 00061	[14	9	m		0	9	0		2	0	0		•
				72.0	0.0	2.0	0.0	21.5	3.2	1.3	0.0	8.18	15.45
std Dev					. )	٠	.	. !	.	.	.	. !	• 1

HEMATOLOGY
(cont.):
Appendix H

Animal Number	Sex	Group	Day	SEG	BAN	EOS	BAS	LYM	MON	ATL	NRBC	PT	APPT
89A00019	Σ	7	m		7	æ	0		œ	7	1	•	5.
89A00043	Σ	7	٣		0	7	0	11	2	0	_	•	9
89A00054	Σ	7	m		0	-	0		٣	-	0	•	س
89A00030	ĹŦ	7	m	88	0	1	0	9	5	0	0	9.4	14.4
89A00035	'n	7	٣		0	7	0			2	0	•	9
89A00070	ĹĿij	7	٣		1	2	0	35	m	0	0	٠	7.
Mean				0	1 .		•	0	] -	١.	1 .	15.	٣.
Std Dev				10.9	0.5	3.3	0.0	11.1	2.4	0.8	0.5	0.98	$\sim$
89A00001	Σ	æ	m		0	7	0		4	2	0		
39A00013	Σ	- α	m		0	m	0		2	7	0		5.
89A00053	Σ	8	٣		0	5	0		-	0	0		<del>-</del>
89A00040	(£.,	œ	3	75	0	-	0	22	2	0	0	9.5	15.5
89A00062	Ĺ	80	Υ		0	0	0		7	0	0		7.
89 <b>V</b> 000 <b>V</b> 8	ī	89	m		0	0	0		7	0	0	•	4.
Mean						1 .	.	1 .		1 .	1 .	. 4	٣.
Std Dev				4.9	0.0	2.9	0.0	5.6	2.3	0.8	0.0	1.03	3.75
89 <b>A</b> 00005	Σ	σ	ĸ	63	0	m	0		7	5	0		~ ∵
89A00049	Σ	6	m	69	0	H	0		7	7	0	•	0.
89A00055	Σ	6	8	59	0	<b>~</b>	0		2	0	0	•	4.
89A00026	Ŀ	6	m	81	2	0	0	14	2	~	-	11.0	17.8
89A00037	لعا	S	m	79	0	0	0		1	0	0	•	. /
89A00060	ĹĿij	6	3	80	Ö.	0	0		1	0	0	•	~
Mean				71.8	0.3	0.8	0.0	23.0	3.3	0.7	0.2	8.52	20.12
Std Dev								α					0

HEMATOLOGY
(cont.)
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pendix
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Animal	Sex	Sex Group Day	Day	WBC	RBC	нсв	HCT	MCV	МСН	МСНС	PLT	RET
Number											 	
90000468	Σ	10	7	8.2	6.27	14.4	42.0	0.79	23.0	34.3	318	2.1
9000000	Σ :	0.1	7	16.7	6.42	15.4	44.3	0.69	24.0	34.8	328	0.4
99300057	Σ	2 -	, ,	8.7	7.62	17.3	52.5	68.89	22.7	33.0	220	9.0
15000460	<u>.</u>	2 -	١	11.3	7.03	15.9	47.0	6.99	22.6	33.8	445	1.6
# 5000 # 000 000 000 000 000 000 000 000	ı Cı	2 -	,	13.3	7.02	15.6	46.5	66.3	22.2	33.5	311	1.7
89A00067	بنا ب	10	, ,	8.9	6.92	16.5	46.7	67.5	23.8	35.3	323	1.4
Mean Std Dev				11.18	6.880	15.85	46.50	67.60	23.05	34.12	324.2	1.30

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	RBC	нсв	HCT	MCV	МСН	MCHC	PLT	RET
89 <b>A</b> 00012	Σ	٦	١		ω.	4.	4	5.	1.	2	2	•
89A00042	Σ	7	7	•	. 1	4	,	ω	2.	۳,	$\infty$	•
89A00058	Σ	7	7	11.2	5.93	13.6	39.6	8.99	22.9	34.3	224	0.3
89A00022	ĹŁĄ	1	7	9.	9.	4.	3.	5.	Ξ.	ω.	-	
89A00038	ĹŦ	7	7	•	. 2	2.	7.	0	4.	4.	(*)	
89A00072	Ŀ	1	7	•	9.	5.	4.	9	Э.	4	7	
Mean				3.	.24	-:	1	0.	7.	6.	37.	7
Std Dev				0.84	0.598	0.91	2.97	2.03	1.02	0.71	73.2	0.31
89A00003	Σ	7	7	•	. 2	4.	1	7.	2.	ω.	9	
89A00009	Σ	2	7	12.5	6.15	14.3	43.0	6.69	23.3	33.3	248	1.0
89A00047	Σ	2	7	•	4.	9	8	4	۲.	ج	_	•
89A00031	يعاً	2	7	•	.5	5.	4.	ω	იე	4	$\sim$	•
89A00063	Ŀ	7	7	•	. 5	4.	Ξ.	ب		ж	7	٠
89A00066	[Li	2	7	•	. 5	5.	4	7.	Э.	4.	9	•
Mean				. 5	.57	80	6.	6.	9.	8.	m.	٠.
Std Dev				2.22	0.467	0.91	2.50	2.30	0.83	0.49	35.7	0.45
89A00002	Σ	κ	7		6.	ω.	1.	6	2.	2.	$\circ$	
89A00045	Σ	٣	7	9.9	6.75	15.2	45.9	68.0	22.5	33.1	355	3.3
89A00052	Σ	٣	7	٠	. 5	5.	4	7.	ж	4		
89A00025	Ĺ	$\mathcal{C}$	7	•	ω.	ج	0	ъ Э	ж •	4.	9	
89A00033	Œ	Υ	7	•	9.	5.	ω	7.	2.		$\infty$	
89A00064	Ĺ	8	7	•	9.	5.	4.	9	2.	4	$\sim$	
Mean				7.47	6.247	14.27	42.33	67.78	22.83	33.70	252.0	1.73
Std Dev				۲	7		0	<	0	3	7	~

HEMATOLOGY

(cont.):

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1.65 1...7 0.43 1. 48 1.3 2.2 0.7 0.6  $\Xi$ KET 2.7 1.4 1.6 2.0 1.2 1.0 327.0 79.4 398.5 42.8 3/to.s 248 376 411 456 250 321 350  $\Gamma$  I T 4 3 / 32.7 364 332 429 463 387 347 33.90 33.87 0.36 33.75 0.44 33.8 33.2 34.2 34.1 34.0 33.9 33.7 33.7 33.2 34.5 MCHC 34.3 34.5 33.7 33.7 33.7 22.70 0.84 23.22 0.94 23.02 0.53 24.4 222.4 222.2 22.3 22.4 22.5 24.1 22.3 22.9 24.5 23.3 22.6 23.6 22.9 22.9 22.4 23.7 MCH 68.57 2.56 66.90 2.11 68.22 1.35 65.8 66.0 711.4 67.2 67.0 71.8 68.6 66.5 70.1 68.0 69.2 67.0 71.0 66.5 MCV 43.58 47.03 1.98 46.07 1.80 43.7 40.9 42.7 45.3 44. 48.8 49.3 40.4 49.2 48.1 42.8 48.4 47.5 HCT 15.93 0.80 15.55 1.2614.78 0.65 15.0 15.4 13.8 14.6 14.4 15.5 16.2 14.7 16.7 16.8 15.4 13.7 16.6 16.2 14.2 16.2 6.515 0.315 6.752 6.862 0.284 6.59 6.86 6.42 98.9 7.02 7.08 6.19 7.22 6.93 99.9 6.07 68.9 7.28 6.21 RBC 6.71 6.61 Appendix 12.03 1.58 12.47 6.12 11.72 10.5 10.5 10.0 10.0 24.9 8.9 12.8 11.5 12.4 12.9 9.1 16.7 111.2 9.2 14.2 10.1 8.9 WBC Day r---------Sex Group 2522 99999 ΣΣΣωμω ΣΣΣωωω ΣΣΣμιμ 89A00039 89A00071 89A00056 89A00020 89A00046 89A00050 89A00029 89A00018 89A00048 83A00004 89A00011 89A00027 89A00065 89A00069 89A00007 89A00051 89A00041 89A00061 Animal Std Dev Number Std Dev Std Dev Mean Mean Mean

:		1	:	Appendix	dix H	(cont.):		нематогосу				
Animal Number	Sex	Group	Day	WBC	RBC	НСВ	HCT	MCV	МСН	МСНС	PLT	RET
100049	Σ	7	7	^	0	4	$\sim$		^	~	4	
POOUND	Σ	, L	, ,	·	. S		∶ σ	. o	. ~	· ,	· 🛛	•
9 <b>A</b> 0005	Σ	7	,		· 0	. ~	 x	٠ .	. 0	· .		
9 <b>A</b> 0003	<u>.</u>	7			. 2	4			. 2		$\sim$	
89A00035	, E4	7	7	5.8	5.02	12.2	35.3	70.4	24.3	34.6	189	1.0
89A00070	Ĺŧų	7	7	•	$\infty$ .	3.	9.	7.	Э.	4	5	
Mean				7	84	\ m	9.2	\ m	2.8	9	\mathrew{\pi}{\pi}	6
Std Dev				2.47	0.459	0.79	2.37	2.70	1.16	0.62	64.2	0.51
89800001	Σ	∞	7	•	. 2	3	0	5.	٠,	$\sim$	S	•
89A00013	Σ	ω	7	•	۲.	5.	4.	9	2.	$\sim$	9	•
89A00053	Σ	· œ	7	8.7	5.53	12.6	37.0	6.99	22.8	34.1	320	0.5
89A00040	Ŀų	8	7	•	0.	<u>,                                    </u>	4.	8		4.	$\infty$	•
89A00062	Œ	8	7	•	٦.	<u>ښ</u>	0	9	2 .	$\sim$	4	•
89 <b>A</b> 00068	بنا	8	1.		0.	ب	9.	. 9	2.	4.	9	•
Mean				. 2	. 95	4.	9.	9.	9	١.	227.3	0.17
Std Dev				1.47	0.572	$\overline{}$	3.51	0.85		0.3	65.	•
89 <b>A</b> 00005	Σ	D	1.		ω.	ω.	9	7.	2.		4	
89A00049	Σ	6	L.	5.0	5.50	12.8	37.6	68.4	23.3	34.0	201	0.5
89A00055	Σ	6	7		7.	4.	2.	9	2	4.	$\sim$	
89A00026	Ŀ	6	L	•	. 7	2.	7.	4			5	
89A00037	Ŀ	6	7		0.	2.	5.	0	4	5.	$\circ$	
89A00060	Ŀı	6	7		. 5	3.	89	9.	ж	<del>ن</del>	4	
Mean				.2	99.	0.	4.	6	23.13	0.		07.0
Std Dev				2.61	0.428	0.75	7	2.03	1.0	0.71	4.	0.33

				Appe	Appendix H	H (cont.):	t.):	HEMATOLOGY	LOGY			:	
Animal	Sex	Sex Group Day	Бау	SEG	BAN	EOS	BAS	LYM	MOM	ATL	NRBC	PT	APPT
89A0006 89A00044 89A00057 89A00034 89A00059	ΣΣΣμμμ	10 10 10 10		71 59 66 76 75	20000	ss	000000	23 35 22 23 19	~ v w v w 4	004047	000010	13.4 9.0 8.6 7.8 9.0	18.2 17.3 17.8 12.8 17.0
Mean Std Dev				68.3	0.3	1.7	0.0	24.7	3.3	1.7	0.2	9.42	16.47

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Бау	SEG	BAN	EOS	BAS	LYM	MOM	ATL	NRBC	P·ľ	APPT
89 <b>A</b> 00012	Σ	<b>.</b>	7	69	_	٦	0		7	0	0		œ
89A00042	Σ	_	7	67	0	2	0		œ	,	0		٠.
89A00058	Σ	<b>,_</b>	7	75	0	<b>~</b>	0	22	_	<del></del>	0	0.8	18.7
89A00022	ĹĿ		7	97	0	_	0		5	2		•	9
89 <b>A</b> 00038	щ	7	7	72	0	0	0		9	0	0	•	. 2
89A00072	ĹĿ	-	7	75	0	5	0		4	1	0	•	7.
Mean				1 .	1 .	.	1 .	1 .		1 .		١.	7.
Std Dev				3.7	0.4	1.8	0.0	4.8	1.7	0.8	0.4	1.02	2.59
89A00003	Σ	2	١	7.1	0	m	0		m	0	0		
89A00009	Σ	2	l.	74	0	ᆏ	0		9	2	0		
89A00047	Σ	2	1.	5.8	0	0	0	34	4	4	0	12.0	19.4
89A00031	ī	2	7	1.4	0	5	0		7	7	0		
89A00063	ш	2	1.	7.1	0	m	0		5	0	0		$\stackrel{\cdot}{\sim}$
89 <b>A</b> 00066	Ĺ	2	7	89	0	-	0		4	0	0		&
Mean				69.3	1 .	1 .			1 .	1 .	1 .	°	22.57
Std Dev				0.9	0.0	1.8	0.0	6.3	1.4	1.6	0.0	1.32	5.04
89 <b>A</b> 00002	Σ	٣	1.	67.	0	5	0		4	0			$\sim$
89A00045	Σ	$\sim$	1.	69	0	0	0	31	4	0	0	10.5	22.0
89A00052	Σ	~	1.	65	0	5	0		4	2	0	•	· 0.
89A00025	H	~	1.	97.	0	~	0		4	7	0	•	0.61
89 <b>A</b> 00033	Ŧ	٣	1.	.78	0	0	0		7	0	0	•	~
89 <b>A</b> 00064	교	~	7	80	0	П	0		4	0	0	•	9.¥.
Mean				73.8	0.0	1.5	0.0	19.7	4.5	0.5	0.2	10.42	08.1.
												-	

HEMATOLOGY

(cont.):

H

Appendix

17.35 2.18 17.47 18.32. 18.2 14.8 17.8 19.2 19.2 18.6 22.0 14.5 22.8 14.5 17.5 16.8 17.8 21.5 16.0 16.5 APPT 8.48 7.33 7.93 6.8 6.8 8.5 7.2 9.2 7.2 9.8 7.6 6.6 6.4 8.3 7.6 7.5 5.8 8.4 PT  $\frac{1.2}{1.3}$ NRBC 0.5 0.5 00000 0 0 0 0 0 00000 2.8 1.3 2.0 ATL 22 4 7 8 9 00000 00980 2.5 2.5 3.5 NOW 31223 4 4 8 8 9 30.2 32.3 23.7 LYM 50 36 25 22 22 30 21 18 25 24 24 37 0.0 0.0 0 BAS . . . 00000 00000 000000 1.0 1.5 2.3 EOS 0 8 2 8 2 8 4 1 1 3 3 0.0 0.5 0.7 BAN 00000 1000 7 0 0 0 0 -60.8 64.5 67.8 8.4 11.0 SEG 53 63 56 59 72 62 63 61 Day c**ここここ**に . . . . . . Group 2022 000000 44444 Sex ΣΣΣωμω ΣΣΣιιι ΣΣΣώμω 89A00039 89A00071 89A00041 89A00061 89A00018 89A00048 89A00056 89A00020 89A00046 89A00027 89A00065 89A00069 89A00050 89A00029 89A00004 89A00011 89A00007 89A00051 Mean Std Dev Animal Number Std Dev Std Dev Mean

				Appe	Appendix	H (cont.)	t.):	HEMATOLOGY	LOGY				
Animal Number	Sex	Group	Day	SEG	BAN	EOS	BAS	LYM	MON	ATL	NRBC	PT	APPT
89 <b>A</b> 00019	Σ	۲	7		0	٢	0		<₩	0	0		6
89A00043	Σ	7	7	54	0	6	0	34	m	0	0	9.8	19.9
89A00054	Σ	7	7		0	4	0		~	0	0	•	5.
89A00030	ធ	7	7		0	4	0		2	0	0	•	9
89A00035	Ŀ	7	7		0	9	0		5	_	0	•	0
89 <b>A</b> 00070	נדי	7	7		7	Ж	0		2	0	0	•	7.
Mean						1 .					1 .	9	5
Std Dev				8.1	0.4	2.3	0.0	0.9	1.2	0.4	0.0	0.44	3.34
89 <b>A</b> 00001	Σ	80	7		7	7	0		æ	0	0		2.
89A00013	Σ	æ	7		e	9	0		٦,	-	0	•	æ
89A00053	Σ	80	7	69	7	m	0	22	m	2	0	8.6	21.4
89A00040	ĹĻ	80	7		0	1	0		٦,	~	0	•	3.
89A00062	Ŀı	œ	7		0	7	0		m	-	0	•	0
89 <b>A</b> 00068	Į.	ω	7		0	0	0		3	0	0	•	ж Ж
Mean				9			.	1 .	1 .	1 .	1 .	5.	2
Std Dev				13.3	1.2	2.9	0.0	8.9	2.6	0.8	0.0	0.65	3.56
89 <b>A</b> 00005	Σ	Ø	1.			٦	0	40		3	-		2.
89A00049	Σ	6	7		-	r.	0	22	2	7	0	2.	27.8
89A00055	Σ	6	7		0	2	0	34	7	2	0	•	0
89A00026	لئا	6	1.		0	9	0	18	4.	0	0	~;	$\dot{z}$
89A00037	Ĺų	6	7	65	0	0	0	27	æ	0	0	8.8	26.5
89A00060	Ĺ	6	7		0	$\sim$	0	15	თ ,	0	0	•	~;
Mean				66.7	-	2.8	1 .		3.2	1.0		10.60	27.07
Std Dev				8.7	0.5	2.3	0.0	9.6	•	•	0.4	2.14	8.24

Appendix H (cont.): HEMATOLOGY

Animal	Sex	Sex Group Day	Бау	WBC	RBC	нСВ	нст	MCV	МСН	MCHC	PLT	RET
HOMBE								-				
89400006	Σ	10	14	9.1	6.56	15.0	45.0	9.89	22.9	33.3	445	2.9
89400044	Σ	10	14	12.1	6.18	14.6	43.9	71.1	23.6	33.3	347	
89400057	Σ	10	14	8.1	7.72	17.7	53.5	69.3	22.9	33.1	248	
89400034	<u>.</u>	10	14	9.7	7.62	17.5	52.7	69.1	23.0	33.2	528	
89A00059	י נד	10	14	10.5	7.10	16.0	47.7	67.2	22.5	33.5	281	5.6
89A00067	بعك	10	14	8.6	7.99	18.5	55.1	0.69	23.2	33.6	300	•
o N				9.68	7.195	16.55	49.65	69.05	23.02	33.33	358.2	2.60
Std Dev				1.45	0.711	1.58	4.74	1.26	0.37	0.19	107.7	1.17

Appendix H (cont.): HEMATOLOGY

	Animal	Sex	Group	Бау	WBC	RBC	HGB	нст	MCV	МСН	мснс	PLT	RET
M 1 14 10.0 13.9 41.7 69.0 23.2 33.6 M 1 14 10.1 5.01 11.5 33.4 66.6 23.0 34.4 F 1 14 10.1 5.01 11.5 33.4 66.6 23.0 34.4 F 1 14 10.1 5.01 11.5 33.4 66.6 23.0 34.4 F 1 14 10.3 5.49 13.6 40.4 73.6 24.8 33.7 33.8 F 1 14 10.3 7.06 16.0 47.3 67.0 22.7 33.8 M 2 14 4 0.847 1.58 5.08 2.91 1.07 0.4 M 2 14 14.7 5.61 13.6 39.9 71.1 24.2 34.1 F 2 14 15.7 7.38 16.4 48.0 65.0 22.2 34.2 F 2 14 15.7 6.91 15.1 44.6 67.8 22.2 34.2 F 2 14 15.7 6.91 15.1 45.3 69.8 23.3 33.8 M 3 14 6.4 6.4 67.4 22.8 33.8 M 3 14 6.4 7.6 14.7 6.32 14.5 67.5 67.5 67.5 67.5 67.5 67.5 67.5 67	0100040	2	-				) u	2	ي	-	,	-	ł .
M 1 14 6.8 6.00 13.9 41.4 69.0 23.2 33.6    K 1 14 10.1 5.01 11.5 33.4 66.6 23.0 34.4    K 1 14 10.3 5.49 13.6 40.4 73.6 24.8 33.7    K 1 14 10.3 5.49 13.6 40.4 73.6 22.7 33.8    K 1 14 10.3 5.49 13.6 40.4 73.6 22.7 33.8    M 2 14 0.847 14.13 42.10 68.08 22.92 33.6    M 2 14 6.9 5.52 12.4 37.1 67.2 22.5 33.4    K 2 14 6.9 5.52 12.4 37.1 67.2 22.5 33.4    K 2 14 6.9 15.7 6.49 15.1 45.3 69.8 23.3 33.3    K 2 14 15.7 6.49 15.0 44.6 64.5 21.7 33.6    K 2 14 15.7 6.49 15.0 44.6 64.5 21.7 33.6    M 3 14 6.4 7.6 9 18.0 53.7 69.8 23.4 33.8    M 3 14 6.4 7.6 9 18.0 53.7 69.8 23.4 34.1    K 3 14 7.7 6.37 15.1 44.3 69.6 23.7 34.1    K 3 14 8.6 5.48 12.1 44.3 69.6 23.7 34.1    K 3 14 6.2 4.86 10.9 32.8 67.5 22.4 33.2    7.42 6.087 14.08 41.82 68.60 23.10 33.6    7.42 6.087 14.08 41.82 68.60 23.10 33.6    7.42 6.087 14.08 41.82 68.60 23.10 33.6    7.42 6.085 2.41 7.13 0.91 0.48 0.38	21000469	Ξ	4		·	· ·	)		· ·		ე (	٠,	•
F 1 14 10.1 5.01 11.5 33.4 66.6 23.0 34.4 F 1 14 10.1 5.01 11.5 43.4 66.6 22.0 33.2   F 1 14 10.3 5.49 14.4 43.4 66.6 22.0 33.2   F 1 14 10.3 5.49 14.0 47.3 67.0 22.7 33.8   9.80 6.197 14.13 42.10 68.08 22.92 33.6   1.64 0.847 1.58 5.08 2.91 1.07 0.4   M 2 14 6.9 5.52 12.4 37.1 67.2 22.5 33.4   F 2 14 16.7 5.61 13.6 39.9 71.1 24.2 34.1   F 2 14 15.7 6.49 15.1 45.3 69.8 23.3 33.3   F 2 14 15.7 6.49 15.1 46.4 67.4 22.8 33.8   F 2 14 8.1 6.88 15.7 46.4 67.4 22.8 33.8   M 3 14 6.4 7.69 18.0 53.7 69.8 23.4 34.1   F 3 14 8.6 5.48 12.8 33.5 68.4 22.9 33.6   F 3 14 8.1 5.80 13.2 39.5 68.1 22.8 33.4   F 3 14 6.2 4.86 10.9 32.8 67.5 22.4 33.2 69.3   C 3 10 33.6 0.35 C.41 7.13 0.91 0.48 0.3	89A00042	Σ,	7		9	Э.	m	_;	თ	M		2	•
F 1 14 11.5 6.54 14.4 43.4 66.4 22.0 33.2 5 1.0 14 10.3 5.49 13.6 40.4 73.6 24.8 33.7 7 6 16.0 47.3 67.0 22.7 33.8 3.7 7 6 16.0 68.08 22.92 33.6 1.64 0.847 1.58 5.08 2.91 1.07 0.4 0.4 7 5.61 13.6 39.9 71.1 24.2 34.1	89A00058	Σ	-		0	0.	$\vec{}$	<del>رب</del> ،	9	ج	4	7	•
F 1 14 10.3 5.49 13.6 40.4 73.6 24.8 33.7    F 1 14 9.3 7.06 16.0 47.3 67.0 22.7 33.8    9.80 6.197 14.13 42.10 68.08 22.92 33.6    1.64 0.847 1.58 5.08 2.91 1.07 0.4    M 2 14 6.9 5.52 12.4 37.1 67.2 22.5 33.4    F 2 14 14.7 5.61 13.6 39.9 71.1 24.2 34.1    F 2 14 16.7 6.49 15.1 45.3 69.8 22.1 34.2    F 2 14 8.1 6.88 15.7 46.4 67.4 22.8 33.8    M 3 14 6.4 7.69 18.0 53.7 69.8 23.4 33.5    M 3 14 6.4 7.69 18.0 53.7 69.8 23.4 33.5    F 3 14 6.2 6.31 15.1 44.3 69.6 23.7 34.1    F 3 14 6.2 6.37 15.1 44.3 69.6 23.7 34.1    F 3 14 6.2 6.39 13.2 39.5 68.1 22.8 33.4    F 3 14 6.2 6.37 15.1 44.3 69.6 23.7 34.1    F 3 14 6.2 6.38 13.2 39.5 68.1 22.8 33.4    F 3 14 6.2 6.39 14.08 7.50 0.95 0.31.0 33.6 0.3    F 3 14 6.2 6.087 14.08 41.82 68.60 23.10 33.6 0.3    F 3 14 6.2 6.087 14.08 7.13 0.91 0.48 0.3	89A00022	ت	<b>~</b>			٠ <u>.</u>	4.	$\stackrel{\sim}{\sim}$	9	2.	ج	$\overline{}$	
F 1 14 9.3 7.06 16.0 47.3 67.0 22.7 33.8   9.80 6.197 14.13 42.10 68.08 22.92 33.6   1.64 0.847 1.58 5.08 2.91 1.07 0.4   M 2 14 6.9 5.52 12.4 37.1 67.2 22.5 33.4   M 2 14 14.7 5.61 13.6 39.9 71.1 24.2 34.1   F 2 14 15.7 6.49 15.1 45.3 69.8 23.3 33.3   F 2 14 15.7 6.49 15.1 46.4 67.4 22.8 33.8   F 2 14 8.1 6.88 15.7 46.4 67.4 22.8 33.8   M 3 14 6.4 7.69 18.0 53.7 69.8 23.4 33.5   M 3 14 6.4 7.69 18.0 53.7 69.8 23.4 33.5   M 3 14 6.4 7.69 18.0 53.7 69.8 23.4 33.5   F 3 14 8.6 5.48 12.8 37.5 68.1 22.9 33.6   F 3 14 8.6 5.48 12.8 37.5 68.1 22.8 33.4   F 3 14 6.2 4.86 10.9 32.8 67.5 22.9 33.6   0.95 0.965 2.41 7.13 0.91 0.48 0.3	89A00038	Ĺ	_		0	4.	~	0	<i>ج</i>	4.	$\sim$	378	2.0
M       2       14       6.9       5.52       12.4       37.1       67.2       22.92       33.4         M       2       14       6.9       5.52       12.4       37.1       67.2       22.5       33.4         M       2       14       14.7       5.61       13.6       39.9       71.1       24.2       34.1         F       2       14       5.7       7.38       16.4       48.0       65.0       22.2       34.2         F       2       14       5.7       7.38       16.4       48.0       65.0       22.2       34.2         F       2       14       15.7       48.0       65.0       22.2       34.2         F       2       14       8.1       6.49       15.1       45.3       69.8       23.3       33.3         F       2       14       8.1       6.88       15.7       46.4       67.4       22.8       33.3         A       2       14       6.8       6.465       14.70       43.55       67.50       72.78       33.7         A       3       14       6.4       7.69       18.0       63.7       69.8       23.4 </td <th>89A00072</th> <td>Ĺ</td> <td>1</td> <td></td> <td>9.</td> <td>0.</td> <td>· ©</td> <td>7 .</td> <td>7.</td> <td>2.</td> <td>ж</td> <td></td> <td>1.3</td>	89A00072	Ĺ	1		9.	0.	· ©	7 .	7.	2.	ж		1.3
M 2 14 6.9 5.52 12.4 37.1 67.2 22.5 33.4 M 2 14 14.7 5.61 13.6 39.9 71.1 24.2 34.1 F 2 14 14.7 5.61 13.6 39.9 71.1 24.2 34.1 F 2 14 14.7 5.61 13.6 39.9 71.1 24.2 34.1 F 2 14 15.7 6.49 15.1 45.3 69.8 23.3 33.3 33.3 F 2 14 8.2 6.91 15.0 44.6 64.5 21.7 33.6 F 2 14 8.1 6.88 15.7 46.4 67.4 22.8 33.8 M 3 14 6.4 7.69 18.0 53.7 69.8 23.4 33.7 4.23 0.753 1.46 4.17 2.59 0.88 0.3 M M M M M M M M M M M M M M M M M M M	Mean				8	19	4.1	2.1	8.0	2.9	3.6	10.	1
M       2       14       6.9       5.52       12.4       37.1       67.2       22.5       33.4         M       2       14       14.7       5.61       13.6       39.9       71.1       24.2       34.1         M       2       14       15.7       6.49       15.1       45.3       69.8       23.3       33.3         F       2       14       8.1       6.88       15.1       46.4       67.4       22.8       33.8         F       2       14       8.1       6.88       15.7       46.4       67.4       22.8       33.8         M       3       14       6.88       15.7       46.4       67.5       22.78       33.7         M       3       14       6.45       14.70       43.55       67.50       22.78       33.5         M       3       14       6.4       7.69       18.0       53.7       69.8       23.4       33.5         F       3       14       8.6       5.48       12.8       37.5       68.4       23.4       33.4         F       3       14       6.3       15.1       44.3       69.6       23.7       33.4<	Std Dev				9	.84	1.5	5.0	2.9	1.0	0.4	75.9	0.75
M       2       14       14.7       5.61       13.6       39.9       71.1       24.2       34.1         F       2       14       5.7       7.38       16.4       48.0       65.0       22.2       34.2         F       2       14       15.7       6.49       15.1       45.3       69.8       23.3       33.3         F       2       14       8.2       6.91       15.0       44.6       64.5       21.7       33.6         F       2       14       8.1       6.88       15.7       46.4       67.4       22.8       33.8         M       3       14       6.465       14.70       43.55       67.50       22.78       33.7         M       3       14       6.4       7.69       18.0       53.7       69.8       23.4       33.5         M       3       14       7.5       6.32       14.5       43.1       68.2       22.9       33.4         F       3       14       8.6       5.48       12.8       37.5       68.4       23.4       34.1         F       3       14       8.1       5.80       13.2       86.6       22.4 </td <th>89A00003</th> <td>Σ</td> <td>2</td> <td></td> <td></td> <td>5</td> <td>2.</td> <td>7.</td> <td>7 .</td> <td>2.</td> <td></td> <td><math>\infty</math></td> <td>•</td>	89A00003	Σ	2			5	2.	7.	7 .	2.		$\infty$	•
M       2       14       5.7       7.38       16.4       48.0       65.0       22.2       34.2         F       2       14       15.7       6.49       15.1       45.3       69.8       23.3       33.3         F       2       14       8.2       6.91       15.0       44.6       64.5       21.7       33.6         F       2       14       8.1       6.88       15.7       46.4       67.4       22.8       33.8         9.88       6.465       14.70       43.55       67.50       22.78       33.7         4.23       0.753       1.46       4.17       2.59       0.88       0.3         M       3       14       6.4       7.69       18.0       53.7       69.8       23.4       33.5         F       3       14       8.6       5.48       12.8       37.5       68.4       23.4       34.1         F       3       14       8.1       5.80       13.2       39.5       68.1       22.9       33.4         F       3       14       6.2       4.86       10.9       32.8       67.5       22.4       33.2         F	89A00009	Σ	7			9.	(٦)	ъ Э	1	4.	4.	9	٠
F 2 14 15.7 6.49 15.1 45.3 69.8 23.3 33.3   F 2 14 8.2 6.91 15.0 44.6 64.5 21.7 33.6   F 2 14 8.1 6.88 15.7 46.4 67.4 22.8 33.8   9.88 6.465 14.70 43.55 67.50 22.78 33.7   4.23 0.753 1.46 4.17 2.59 0.88 0.3   M 3 14 6.4 7.69 18.0 53.7 69.8 23.4 33.5   F 3 14 7.7 6.32 14.5 43.1 68.2 22.9 33.6   F 3 14 8.6 5.48 12.8 37.5 68.4 23.4 34.1   F 3 14 8.1 5.80 13.2 39.5 68.1 22.8 33.4   F 3 14 6.2 4.86 10.9 32.8 67.5 22.4 33.2   7.42 6.087 14.08 41.82 68.60 23.10 33.6   0.95 0.965 2.41 7.13 0.91 0.48 0.3	89A00047	Σ	2			ω.	9	8	5.	2.	4	275	1.3
F 2 14 8.2 6.91 15.0 44.6 64.5 21.7 33.6 8.1 6.88 15.7 46.4 67.4 22.8 33.8 33.8 8.1 6.88 15.7 46.4 67.4 22.8 33.8 33.8 8.2 0.753 1.46 4.17 2.59 0.88 0.3 0.3 4.23 0.753 1.46 4.17 2.59 0.88 0.3 0.3 4.3 14 6.4 7.69 18.0 53.7 69.8 23.4 33.5 MM 3 14 7.5 6.32 14.5 43.1 68.2 22.9 33.6 F 3 14 8.6 5.48 12.8 37.5 68.4 23.4 34.1 F 3 14 8.1 5.80 13.2 39.5 68.1 22.8 33.4 F 3 14 6.2 4.86 10.9 32.8 67.5 22.4 33.2 7.42 6.087 14.08 41.82 68.60 23.10 33.6 0.3 0.95 0.965 2.41 7.13 0.91 0.48 0.3	89A00031	Ŀı	2		5.	4.	5.	5.	6	ж	<u>ب</u>	7	•
F 2 14 8.1 6.88 15.7 46.4 67.4 22.8 33.8 9.88 6.465 14.70 43.55 67.50 22.78 33.7 4.23 0.753 1.46 4.17 2.59 0.88 0.3    M 3 14 6.4 7.69 18.0 53.7 69.8 23.4 33.5 M 3 14 7.5 6.32 14.5 43.1 68.2 22.9 33.6 M 3 14 7.7 6.37 15.1 44.3 69.6 22.9 33.4 F 3 14 8.1 5.80 13.2 39.5 68.1 22.8 33.4 F 3 14 66.2 4.86 10.9 32.8 67.5 22.4 33.2 7 7.42 6.087 14.08 41.82 68.60 23.10 33.6 0.35 0.95 0.965 2.41 7.13 0.91 0.48 0.3	89A00063	تعا	2			6.	5.	4.	4.	Ţ.	3.	2	٠
Dev  9.88 6.465 14.70 43.55 67.50 22.78 33.7  00002 M 3 14 6.4 7.69 18.0 53.7 69.8 23.4 33.5  000052 M 3 14 7.5 6.32 14.5 43.1 68.2 22.9 33.6  000052 M 3 14 8.6 5.48 12.8 37.5 68.4 23.4 34.1  00003 F 3 14 7.7 6.37 15.1 44.3 69.6 23.7 34.1  00003 F 3 14 8.1 5.80 13.2 39.5 68.1 22.8 33.4  000064 F 3 14 6.2 4.86 10.9 32.8 67.5 22.4 33.2  000045 M 3 14 6.2 4.86 10.9 32.8 67.5 22.4 33.2  000064 F 3 14 6.2 4.86 10.9 32.8 67.5 22.4 33.2	89A00066	تن	2		•	ω.	5.	9	7.	2.	ж Э	9	•
Dev 4.23 0.753 1.46 4.17 2.59 0.88 0.3 00002 M 3 14 6.4 7.69 18.0 53.7 69.8 23.4 33.5 00045 M 3 14 7.5 6.32 14.5 43.1 68.2 22.9 33.6 00052 M 3 14 8.6 5.48 12.8 37.5 68.4 23.4 34.1 00025 F 3 14 7.7 6.37 15.1 44.3 69.6 23.7 34.1 000033 F 3 14 8.1 5.80 13.2 39.5 68.1 22.8 33.4 00064 F 3 14 6.2 4.86 10.9 32.8 67.5 22.4 33.2 00064 F 0.005 0.965 2.41 7.13 0.91 0.48 0.3	Mean				8.	.46	4.7	3.5	7.5	2.7	3.7		1.25
00002 M 3 14 6.4 7.69 18.0 53.7 69.8 23.4 33.5 00045 M 3 14 7.5 6.32 14.5 43.1 68.2 22.9 33.6 00052 M 3 14 7.7 6.37 15.1 44.3 69.6 23.7 34.1 000025 F 3 14 7.7 6.37 15.1 44.3 69.6 23.7 34.1 000033 F 3 14 8.1 5.80 13.2 39.5 68.1 22.8 33.4 000064 F 3 14 6.2 4.86 10.9 32.8 67.5 22.4 33.2 n n n n n n n n n n n n n n n n n n n	Std Dev				. 2	.75	1.4	4.1	2.5	0.8	0.3	70.	7.
00045 M 3 14 7.5 6.32 14.5 43.1 68.2 22.9 33.6 00052 M 3 14 8.6 5.48 12.8 37.5 68.4 23.4 34.1 000025 F 3 14 7.7 6.37 15.1 44.3 69.6 23.7 34.1 000033 F 3 14 8.1 5.80 13.2 39.5 68.1 22.8 33.4 000064 F 3 14 6.2 4.86 10.9 32.8 67.5 22.4 33.2 n 7.42 6.087 14.08 41.82 68.60 23.10 33.6 n Dev	89A00002	Σ	ю		•	9.	80	د	9.	ω.	ж	0	•
00052 M 3 14 8.6 5.48 12.8 37.5 68.4 23.4 34.1 200025 F 3 14 7.7 6.37 15.1 44.3 69.6 23.7 34.1 200033 F 3 14 8.1 5.80 13.2 39.5 68.1 22.8 33.4 00064 F 3 14 6.2 4.86 10.9 32.8 67.5 22.4 33.2 n 7.42 6.087 14.08 41.82 68.60 23.10 33.6 Dev	89A00045	Σ	3		•	٣.	4.	<u>ښ</u>	8	2.	ж	0	٠
00025 F 3 14 7.7 6.37 15.1 44.3 69.6 23.7 34.1 000033 F 3 14 8.1 5.80 13.2 39.5 68.1 22.8 33.4 00064 F 3 14 6.2 4.86 10.9 32.8 67.5 22.4 33.2 n 7.42 6.087 14.08 41.82 68.60 23.10 33.6 Dev	89A00052	Σ	3			, 4	2.	7	8.	ع	4.	242	0.7
00033 F 3 14 8.1 5.80 13.2 39.5 68.1 22.8 33.4 00064 F 3 14 6.2 4.86 10.9 32.8 67.5 22.4 33.2 n 4.86 10.9 32.8 67.5 22.4 33.2 n 5.42 6.087 14.08 41.82 68.60 23.10 33.6 Dev	89A00025	Ŀ	m			. 3	5.	4.	9.	ج	4.	4	•
00064 F 3 14 6.2 4.86 10.9 32.8 67.5 22.4 33.2 n 7.42 6.087 14.08 41.82 68.60 23.10 33.6 Dev	89A00033	ы	٣			ω.		9.	α	2.	ن	5	•
n Dev 7.42 6.087 14.08 41.82 68.60 23.10 33.6 0.95 0.965 2.41 7.13 0.91 0.48 0.3	89A00064	ĹĿı	e		•	8	0	2.	7.	2 .	ب		
Dev 0.95 0.965 2.41 7.13 0.91 0.48 0.3	Mean				4.	.08	4.0	1.8	80	3.1	3.6	243.2	1. 38
	Std Dev				6.	96.	2.4	7.1	•	. 4	$\mathcal{E}$	64.3	•

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Бау	WBC	RBC	нсв	нст	MCV	MCH	МСНС	PLT	RET
89A00018	Σ	4	14	2	89	9	0		4	Э.	S	•
89A00048	Σ	7	14	10.8	7.51	16.6	49.3	65.7	22.1	33.7	331	2.6
89A00056	Σ	٠,-		2.	. 2	4		9	2.	3.	_	•
89A00020	ĹĿ	4		<u>;</u>	0.	7.	ج	9	7	2.	,	
89A00039	ū	7	14	8	.5	9	,	7 .	2.	ж	$\sim$	•
89 <b>A</b> 00071	ഥ	Ÿ		•	· .	. 9	0	8	2.	2 .	5	•
Mean				5	.25	3	.2	0.	.5	-	4.	1.
Std Dev				1.65	0.615	1.21	3.96	2.63	0.84	0.39	71.6	97.0
89A00004	Σ	u,	14	•	. 2	7.	2.	2.	4.	ж Э	$\sim$	•
89A00011	Σ	ز دس	14	8	7.	7.	2	7.	2	ب	7	٠
89A00046	Σ		14	2		9	9.	α	2.	<u>.</u>	$\sim$	•
89A00027	F	<b>4</b> )	14	9.5	7.12	17.3	52.6	73.9	24.3	32.9	261	2.2
89A00065	Ŀ	.*	14	2.		9	9.	α	2.	Э.	_	•
89 <b>A</b> 00069	F	-1	14		Σ.	7.	2.	7.	2.	ج	~;	•
Mean				4	.40	~.	.5	9.	{ •	-		٠.
Std Dev				2.04	0.301	0.56	1.55	2.71	0.9	0.31	63.6	0.53
89A00007	Σ	9	14		6.	5.	9	7.	2	<u>.</u>	530	•
89A00050	Σ	9	14	9.5	7.54	18.0	53.7	71.2	23.9	33.5	361	5.9
89A00051	Σ	9		7	.5	7.	2.	б	ن	<u>.</u>	425	•
89A00029	Ĺų	Ç	14	9	9.	5.	9	9.	ج	<u>ب</u>	465	•
89A00041	Ŀ	9		٠	. 5	7.	;	ж Э	2.	ж	321	•
89A00061	Œ	9		•	·.	9		9.	2.	ж	333	•
Mean					7.270	16.78	50.33	69.23	23.08	33.33	404.8	1.47
Std Dev				2.9	.39	1.0	3.1	1.3	0.5	7.		80.1

Appendix H (cont.): HEMATOLOGY

				1								
Animal Number	Sex	Group	Бау	WBC	RBC	нсв	HCT	MCV	MCH	МСНС	PLT	RET
89 <b>A</b> 00019	Σ	7		ω	. 2		2.	7.	2.	س	$\infty$	
9A0004	Σ	7		•	۲.		$\sim$	0	4	4.		•
9 <b>A</b> 0005	Σ	7		0	. 2	7	<del>~</del> ;	ж	<del>-</del>	۳,	2	•
9A0003	ī	7		7.	5.	4.	·~	9	2	<i>ب</i>	$\overline{}$	
89A00035	ŢŦ	7	14	6.7	5.64	13.8	40.7	72.1	24.5	33.9	235	2.3
9 <b>A</b> 0007	ĹĿı	7		•	0.	4.	1.	88	ب	ب	7	•
Mean				.5	.75	12.	. 2		0.	7.	24.	٣.
Std Dev				4.29	0.659	1.41	4.48	2.9	1.14	0.43	72.1	0.85
89A00001	Σ	80			ω.	2	&	9	2.		-	
89A00013	Σ	8			. 2	4	Ţ.	7.	2	ж	9	•
89A00053	Σ	80	14	7.5	4.63	10.7	31.0	6.99	23.1	34.5	328	0.5
89A00040	Ŀ	80			۲.	0	2.	8	2.	$\overset{\sim}{\cdot}$	5	
89A00062	Ŀ	ω		0	1	 ن	7.	9	2	4.	7	٠
89 <b>V</b> 00068	ĹŦŧ	ω	14		<u>.</u>	-	5.	9	2.	ж •	9	•
Mean				8	41	12.	L.	10	5.	9.		6.
Std Dev				2.91	0.640	1.34	4.06	0.81	0.39	99.0	72.1	0.44
9 <b>A</b> 0000	Σ	σ			9.		80	&		ж.	1	
89A00049	Σ	6	14	8.9	5.18	11.9	35.8	69.1	23.0	33.2	175	0.5
9A0005	Σ	6		•	.5	2.	7.	7.	ب	4	5	٠
9 <b>A</b> 0002	Œ	6		•	. 5	2	9	4.	$\vec{\ }$	ج	$\sim$	
9A0003	Ŀ	6		•	Ξ.	2.	7.	2.	4.	4.	0	•
9 <b>4</b> 0006	ដែ	6		•	. 5	ж •	8	9.	Э.	4	4	
Mean				.2	.43		1 .	68.68	23.32			1.28
Std Dev				0.68	0.224	0.5	1.2	9.	1.0	0.5	56.5	Ω.

HEMATOLOGY
(cont.):
Appendix H

					! !						1	1	1
Animal Number	Sex	Sex Group Day	Day	SEG	BAN	EOS	BAS	LYM	MON	ATL	NRBC	P·ľ	APPT
90000400	2	0	14	63	С	4	0	26	7	0	æ	8.2	14.8
6 9 A C C C C C C C C C C C C C C C C C C	ΞΣ	2 -	F 7	σ		و و	0	2.2	4	0	0	10.2	22.2
8940063	Ε 2	2 5	י ר י	9	) C	4	0	2.7	. <b>~</b> )	0	0	8.9	18.5
89A00037	Ει	2 5		ט ע	) <del>-</del>		, ,-	29	30	7	1	8.6	13.3
39A00034	ž.	7.0	<del>1</del>	0 '	<b>,</b>	4 (	٠ <	\ <b>\</b>	7		C	ur ox	α 4
89A00059	Ĺ	10	14	20	0	7	) (	4.2	၁ဂ	<u>ب</u> د	<b>)</b>	) ( )	
89A00067	î.	10	14	71	0	0	0	23	$\sim$	n	>	7.6	6.4.0
\$ \$				62.3	0.2		0.2	28.2	4.7	1.7	0.7	8.78	16.68
Std Dev				7.9	0.4	2.2	0.4	7.3	1.6	2.9	1.2	1.23	3.27

HEMATOLOGY
(cont.):
Appendix H

Animal Number	Sex	Group	Бау	SEG	BAN	EOS	BAS	LYM	MON	ATL	NRBC	PT	APPT
89 <b>A</b> 00012	Σ	<b>~</b>	14	1.1	0	5	0		7	0	7		9
89A00042	Σ	·•			0	S	0		9	0	0		
89A00058	Σ	<b>~</b>	14	83	0	0	0	13	4	0	0		18.8
89A00022	ĹŁ	-			0	0	0		4	2	-	•	ω
89A00038	ĹŁĄ	-			0	-	0		3	_	0		7.
89A00072	Ĺŧ	1		98	0	0	0	6	8	2	0	•	9.
Mean				.	1 .	1 .		1 .			.	\mathref{m}	
Std Dev				5.1	0.0	2.0	0.0	4.3	1.6	1.0	0.5		9
89A00003	Σ	2	14	99	0	æ	0		5	0			ۍ.
89A00009	Σ	2		7.7	_	4	0	13	4	-	~~	•	9
89A00047	Σ	2	14	72	0	0	0	26	-	<b>~</b>	~	13.2	40.0
89A00031	لت	2		87	0	S	0	9	2	0	~-		$\alpha$
89A00063	Ĺ.	2		82	0	1	)		5	0	0	•	9
89A00066	Ē	2		89	0	2	0	23	9	1	0	4.	4.
Mean				\ ·	1 .	1 .		.	1.		.	ω.	26.77
Std Dev				8.2	0.4	2.9	0.0	7.7	1.9	0.5	0.5	2.34	7.13
89 <b>A</b> 00002	Σ	m	1.4	59	0	4	0		æ	1	-		25.0
89A00045	Σ	Μ	14	81	0	0	0	15	4	0	0	23.4	TNTC
89A00052	Σ	$\sim$	14	16	0	2	0		∞	1	2	6.	15.0
89A00025	[14	$\sim$	14	75	0	0	0		4	2	2	0	27.0
89A00033	ĹŦ	$\sim$	14	80	2	2	0		0	2	0	•	20.8
89A00064	ίει	Э	14	84	0	7	0		7	0	0	•	26.2
Mean				75.8	0.3	1.5	0.0	15.5	3.3	1.0	0.8	1 x . x x	08.15
Std Dev													

Animal Sex Number 9A00018 M 9A00056 M 9A00050 F 9A00039 F 9A00071 F ean											1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Group	Бау	SEG	BAN	EOS	BAS	LYM	MON	ATL	NRBC	Ld	APPT
	4	14	62	0	~	0	28	9	<b>-</b>	0		5.
	. 4		52.	0	0	0	2.2	~	0	0		5.
	re		67	Э	4	0	1.9	5	_	0		_
	r <	1 7	49		~	C	40	<b>-</b> ,-:	~	4		ó
	. 4	1 7	64	0	7	С	2.7	~	4	0	9.2	14.2
_	4 -	14	97	0	1	0	20	<b>,_</b>	7	0	•	7.
Dev 0004				0 0	1	0	٠ ١	1 .	1.7	1 .	8.32	18.27
70000			0.60 6.60	0.4	1.5		7.8	2.8	1.4	1.6	2.00	٠
P00000												
	بى.	1.4	48	0	2	0	35	20	7	~	9.7	9.91
0.0000.1	ۍ د	7	75	7	2	0	1.1	M	2	7		4
3800046	י נ	. ~	[9]	0	2	0	35	2	0	2	10.0	4
9 <b>4</b> 00040	) <u>.</u>	1 7	80	0	0	0	26	<u>ب</u>	_	≎4	0.6	4
980005.1 080005.1	) L	- 4	07.	0	၁	0	2.1	. <b>~</b>	0	$\sim$		?₁,
89A00069 F	n 50	14	68	0	-	0	20	a).	9	0	χ·, .	
					1		26.7	1 .	2.7	- · ·	8.18	1820
Mean Std Dev			0.00 3.0		1.0	0.0	7.	2.2	3.1	8.0	10	
		·	,		c		<b>7</b>	ú	_	~	⊃. <b>x</b>	4.7
	Ç.	<u>-</u>	t o	<b>)</b>	n (	<b>&gt;</b> <	F 7	) <b>&lt;</b>	-, -	` :		
	ၞ	~	9/	ο.	o .	<b>)</b>	ρ.	÷ .	<b>-</b> c	) J	5 · 3	0 7.1
	Ç	-	1.1	)		<b>&gt;</b>	<b>7</b> (	٥,	\;	- c		. x
	9	14	65	<b>=</b>	4	<b>&gt;</b>	30	<b>4</b> , .	- c	<b>0</b> (		)
	9	14	6.7	0	2	0	56	4	<b>-</b> ;	<b>&gt;</b> :	) - : :	 
89A00061 F	9	1.4	7.0	0.	~	0	20	$\infty$	)	0		
			70.2	1	) .	1 .	1 .	•		2.7	8.40	11.75
Mean Std Dev			5.2	0.0	1.0	0.0	5.7	1.6	0.8	2.5	1.36	4.51
											:	

1	-	:	,	í í		:							
	Sex Group		Бау	SEG	BAN	EOS	BAS	ГХМ	MOM	ATI.	NRBC	44	APPT
				,	:	;	Ş	3.6		S	C	α ?	7 0 1
			14	61	0	_	>	67	- ,	<b>)</b> (	) (	0.0	F 0 1
		_		99	0	s,	<b>)</b>	24	-	0	0		56.0
				81	٥	_	0	1.7		0	0	ა. ა.	25.3
		_		7.0	0		0	26	m	0	0	16.2	TNTC
		_		1.9	)	$\infty$	0	21	~	2	_	13.5	34.8
89A00070	E 7	_	14	7.0	0	0	0	2.4	S		0	11.2	18.1
S S S S S S S S S S S S S S S S S S S				1	0	4.3	0.0	1 .		0.5	0.2	11. 33	30.52
Medii Std Dev				6.7		4.1	0.0	$\sim$	2.4	8.0	0.4	3.14	15.78
		~~	7	62	0	.m	0	2.9	<b>.</b> ?	-	0	0.71	ر، ۱۰, ۲
		. ~~		99	-	₹.	0	2.4	<b>~</b> ".	~		٠, ٠ ١ ١	34.0
		. ~		6.4	0	$\infty$	0	2.3	<u>,</u>	0	$\Box$	<b>.</b> ↑.	,
		~		84	0	~	0	1.2	_	0	Ξ	·, ·	7.4.
		. ~		82	<b>\$</b>	N	0	1.5	4	0	Э	≎. <del>I</del> -	77.0
89A00068	. %	~	1.4	82	Ξ	0	0	16	Ξ	ov.	Ξ	0.7	£5.4
;				7 7 1.	- 1	i	0 0	)		1 .	0	11.7.	.'8.6.
Mean					3 - 5			0.6	) - :	; -		×	4.75
Std Dev				10.3	<del>*</del> . C	7 . 7	•			•		•	•
		-	1.4	63	Э	4	0		_	0	-	10	49.0
		·	14	80	0	4	0	13	~	0	С		LVI.
		. 1	14	77.2	0	4	0			-	<b>-</b>		
				7.0	-	ડ	0		~	~	~	12.2	0.94
		\ o	- 7	89	-	2	0		~:	7	0	16	
89A00060	. 14	, D	1.4	67.	0	~	0		7		0	1,	0.07
;				7 17.	~		0			7.0	; ~ ; c	148	* - H.
Mean				( 1 /		; c	; c		1.0	· · · ·	·		18.01
Std Dev				,			•						

## Appendix I: PATHOLOGY REPORT

### GLP Study #88008

Principal Investigator: Denzil F. Frost, MS, DVM, GPT, VC Co-Principal Investigator: Gary M. Zaucha, DVM, GPT, VC

### I. INTRODUCTION

Study: 14-Day Canine Subacute Toxicity Study.

Test Compound: Hypertonic Saline / Dextran 70<sup>®</sup> (HSD)

Animal: Canis familiaris, Beagle, 8 - 9 months, Male and Female.

## Dosage Groups:

			Agent	5	ose
	Group	_	HSD	12	ml/kg
	Group	2	HSD	16	ml/ka
	Group	3	HSD	20	ml/kg
	Group	-1	HS1	12	ml/kg
	Group	5	HS	16	ml/kg
	Group	5	HS	20	ml/kg
	Group	7	270∙	12	ml/kg
	Group	3	270	16	ml/kg
	Group	<i>3</i>	570	20	ml/kg
(Control)	Group	.10	R <u>L</u> 3	20	ml/kg

🧦 - Hypertonic Saline

- - Dextran 70®

' - Ringer's lastate Solution

Reference: SOP-OP-STX-107

### II. SUMMARY OF PROCEDURES

Euthanasia: Sodium Pentobarbital, Intravenous.

Fixative: 10% Neutral Buffered Formalin.

Histopathology: Routine.

Clinical Lab: Hematology Serblagy. Other Procedures: Organ Weights.

III. GROSS FINDINGS: Incidence summary reports of gross lesions for all deaths are listed in Pathology Tables 1 and 2 for females and males, respectively. In these and other Pathology Tables, data are listed as being in two Xybion studies on the computer: 88008F for the females; 88008M for the males. No gross lesions were significantly more frequent in a treated group than in the control group. Lesions in the heart, trachea and spleen were considered to

## Appendix I (cont.): PATHOLOGY REPORT

be congenital findings, lesions in the skin to be sequelae of multiple injections, and lesions in the lymph nodes, pancreas, kidney, and tonsils to be incidental findings of little or no clinical significance and probably unrelated to administration of any of the test compounds. The cause of the reported abnormal pigmentation, a slight red-brown mottling, of the liver of female 89A00040 was not determined, but may have been related to increased hepatocyte size from glycogen storage (see section VI), resulting in narrowed sinusoids and subsequently less blood retention.

IV. MICROSCOPIC FINDINGS: Tissues saved for microscopic examination from all groups were: Brain (to include cerebrum, thalamus, hippocampus, cerebellum, and medulla oblongata), tonsil, trachea, thyroid and parathyroid glands, esophagus, lacrimal gland, salivary gland, heart, lung, thymus, spleen, liver, gall bladder, kidneys, ureter, urinary bladder, gonads, uterus from females, epididymis and prostate gland from males, duodenum, jejunum, ileum, pancreas, stomach, cecum, colon, skeletal muscle from the thigh, sciatic nerve, skin, mammary gland, adrenal glands, pituitary gland, eye, mesenteric lymph node, and diaphragm. The right cephalic vein and skin from the anterior surface of the right antebrachium overlying the cephalic vein were also examined, as were all lesions noted at gross necropsy.

All tissues were examined from all groups. Lesions were graded on a subjective severity scale of 1 = slight, 2 = mild, 3 = moderate, 4 = marked, and 5 = severe.

Pathology Tables 3 and 4 list the incidence summary of all microscopic observations of tissies from females and males, respectively. Based on results of Kolmogorov-Smirnov twotailed analysis (95% confidence level) of microscopic findings, only one lesion was significantly more frequent in a treated group than in the portrol group, from either sex. That lesion was congestion at it is necessionage of the medullaof the mesenteric lymph node, in Group 3 males. The average severity was 1.3, slight. Fathology Tables 5 and 6 list all microscopic findings with average severity grades. Note that the average severity grade is the sum of the severity grades divided by the total number of animals in the group. Most lesions were graded as either slight or mild. Hepatocellular vacuolation was observed in almost all of the animals of each sex. Vacuoles were poorly delimited and probably represented intracellular glycogen storage, a normal finding in well-fed animals. The degree of vacuolation was subjectively graded (see Annex C), but did not correlate with treatment or dosage

### Appendix I (cont.): PATHOLOGY REPORT

group. Sections of antebrachial skin and the subjacent cephalic vein from all treatment and dosage groups had lesions which resulted from repeated intravenous injections; qualitative or quantitative differences among the groups were not observed.

Pathology Annex A contains the Individual Animal Reports, with body and organ weight data, and gross and microscopic findings, for all females. Pathology Annex B contains similar information for the males. Pathology Annex C contains a glossary of microscopic diagnoses.

- V. ORGAN WEIGHTS: Liver, kidneys, heart, brain, adrenal glands, gonads and spleen were weighed from each animal. Pathology Tables 7 and 8 have absolute organ weights, by group mean, for the males and females, respectively. Data for percent organ weight to brain weight ratio are listed in Pathology Tables 9 and 10. Data were assessed for homogeneity by Bartlett's test, the F-statistic was calculated, and differences in group means from the control group were assessed by Fisher's least significance difference test, when the F-statistic was significant. For all tests, significance was defined as p < 0.05. Analysis of variance resulted in a significant F-statistic for liver (F = 0.010for the organ to brain weight ratio, F = 0.007 for absolute organ weight) and spleen (F = 0.004 for the organ to brain weight ratio, F = 0.003 for absolute organ weight) from the females, but for no tissues from the males. Females from groups 1, 2 and 3 (all of the HSD groups) had significantly increased absolute liver weights, but only in group 1, the low dose HSD group, were the livers heavier as a percent organ to brain weight ratio. Absolute spleen weights from the females were increased in groups 2, 3 and 8. Spleen weights as percent organ to brain weight ration was increased in groups 2, 3, 7, and 8 (the intermediate and high dose HSD and D70 groups).
- VI. SUMMARY COMMENTS: No unique morphologic observation correlated with the increased weights of the liver and spleen in some of the groups of females given D70. The cause of the mild hepatomegaly was not determined, but possible explanations might include increased hepatocellular glycogen storage following repeated administration of high doses of the carbohydrate dextran. Splenomegaly usually results from an increase of one or more of the cellular constituents, i. e. lymphoid hyperplasia, so-called reticulcendothelial hyperplasia, smooth muscle hyperplasia, congestion. No increase in these elements or other morphologic alteration

### Appendix I (cont.): PATHOLOGY REPORT

was observed to account for the increase in splenic weight. Lesions observed in these dogs were interpreted as incidental findings of little or no clinical significance. Weight changes in the liver and spleens of females after repeated administration of Dextran 70, both in combination with hypertonic saline and alone, were observed, but were not associated with any evidence of tissue injury. No morphologic evidence of toxicity due to the test compound was found.

Challes B. CLIFFORD, DVM, PhD

MAJ, WO

Diplomate, ACVP

Division of Military Trauma Research

REPORT
PATHOLOGY
(cont.):
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LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	Incic	Incidence	Summ	ary R S port Study	mmary Report for Gro Study Number: Report includes all Study Start Date:	for Gretumber: des all Date:	ross Nec : 88008F   dead a	ss Necropsy 88008F dead animal 31-Jan-89	psy ( mals	Summary Report for Gross Necropsy Observations Study Number: 88008F Report includes all dead animals Study Start Date: 31 Jan-89	PAINTED: U4-Oct-89 Page: 1 SUB-ACUTE/
		:	:		Females	: ;			! ! !	2	
	Ct (s	- m	~ ~ :	<b>m</b> m	4 m	n m	9 M	~ ~	3.88	8	
KIDNEY FRIBROUS SCAR(S)	00	. 00	0	00	00	00		00	0 0	0	
LIVER ABNORMAL FIGMENTATION	0	0	0	0	0	0	0	0	-	0	
LYMPH MODES HEMORRHAGE(S)	0	0	0	0	-	0	0	0	0	0	
LUNGS CONSOLIDATION	-0	00	00	-0	00	0 0	0 0	0	0 -	0	
SKIN DERHATITIS	0	0	0	0	0	0	0	0	-	0	
TOWSIL(S) FOREIGN MATERIAL IN CRYPT	0	0	0	٥	٥	0	-	Q	٥	·	
WHOLE BODY NO LESIONS RECOGNIZED	2	8	~	~	7		-	m	2	_	

	Appendix	×	Ď,	(cont.):		PA1	HOL	PATHOLOGY	REPORT	
LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	; ;	dence	Summa Rep	mmary Report for Gre Study Number: Report includes all Study Start Date:	ort f dy Nu clude tart	Report for Gro Study Number: includes all y Start Date:	SS Necrop 88008M dead anim 07-feb-89	iss Necropsy 88008M dead animals 07-feb-89	Incidence Summary Report for Gross Necropsy Observations Study Number: 88008M Report includes all dead animals Study Start Date: 07-feb-89	PRINTED: 04-0ct-89 Page: 1 SUB-ACUTE/
	Cris 1	~ ~	imm	#a(r 44	: ; sm ;	96	~ ~	. eo m	o n	
HEART HEMATOCYST(S)	0 0	. 00	0	0	0	00	00	0 0	00	
KIDNEY FRIBROUS SCAR(S)	0	0	0	0	0	0	0	0		
LUNGS COMSOLIDATION	0	0	0	0	0	0	0	0	0	
PANCREAS CONGESTION	0	0	0	0	0	0	0	0	0	
SKIW DERMATITIS	0 0	~	0	0	0	0	0	0	0	
SPLEEN ACCESSORY SPLEENS	0	0	0	0	0	0	0	0	0	
TRACHEA DEFORMED TRACHEAL RING(S)	0	0	0	-	0	0	0	0	0	
WHOLE BODY  WO LESIONS RECOGNIZED	2 2	2	8	2	~	m	m	m	>	

Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	Incidence Summary of Microscopic Study Number: 880081 All Diagnoses Study Etart Date: 31-Jan	mary of Microscopic Study Number: 88008F All Diagnoses y Start Date: 31-Jar	copic Obse 88008f es 31-Jan-89	Observations f n-89	s C			94 1	PRINTED: Page:	04-0ct-89 1 SUB-ACUTE/
Notes: Animals = all dead animals Controls from group(s):10 I is sues With Diagnoses	Animal sex: Dosage group: No. in group:	C ( ( s	1 2 3 3 3 3	n i m a 2 2 3 3 3 3			- 1 o m	t e d 7 8 3 3	6 M	· · · · · · · · · · · · · · · · · · ·
SKIN, ANTEBRACH. Inflammation, Subcutaneous Subcutaneous Hemorrhage Folliculitis, Subacute	Number examined:	3	200	3 2 0 1 2 2 0 0	m0		2 2 0	3 2 3 1 2 2 2 2 2 2 0 2 2 0	, M 0	1 1 1 1 1 1 1
ADREWAL GLANDS	.Number examined:	m 0 0	w 0 0	8 0 -	M 0 0	m 0 0	m 0 0	3 3	m 0 +	
AORTA	Number examined:	m	F)	m	٣	~	m	2	<b>M</b>	
BONE MARROW	.Number examined:	m	3	M	~	m	~	£.	m	
BRAIN	.Number examined:	m	۲ ۲	m	~	~	m	3 3	m 	
	.Number examined:	m	m	m	m	m	m	3 3	m 	
Goton Submucosal, Foreign-Body	Number examined:	<b>%</b> 0	3 0 0	mo	w -	m 0	٥ ح	3 3	m 0	
CEPHALIC VEIN	.Number examined:	<b>∞</b> -	2 3	1 2	<b>%</b> 2	mm	m ~	3 2 1	-0	
DIAPHRAGM	Number examined:	7	3 2	~	٣	8	~	3 2	~	
DUODENUM	.Number examined:	2 0	× 0	м 0	m o	мо	m o		<b>m</b> 0	
more parties flanged with a . (minus) are significantly different from control at the 0.05 level using the Kolmogorov-Smirnov	ficantly different f	rom control	96 44		level	ou sing	the K	050610	S - 70 J	m1 Fnov

# PATHOLOGY TABLE 3

Appendix I (cont.): PATHOLOGY REPORT

	Incidence Summary of Micros Study Number: All Diagnos Study Start Date:	y of Microscopic dy Number: 88008F All Diagnoses	c Obser 18F	Observations	v,			PRIN	PRINTED:	04-0ct-89
	Start	,	,					-	7 age:	2
		Date: 51-Jan-89	an-89							SUB-ACUTE,
e s	Animal sex: Dosage group:	Ctts	1 2	E .		A + 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		r e d	· •	, , , , ,
	No. in group:	8	3	~	m	m	3		~	
Inflammation of Submucosal Glands, Acute	oer examined:	<b>6</b>	3 3	m-	0	n 0	3 3	m 0	. m	• • • • • • • • • • • • • • • • • • •
EYENumber	oer examined:	8	3 3	~	8	m	3	m	2	
GALL BLADDERNumber	oer examined:	æ	3 3	m	٣	۳	E E	m	8	
MEARTNumber Thrombosis, Valvular Epicarditis, Subacute	oer examined:	<b>m</b> 0 0	3 3	m 0 0	<b>n</b> 0 0	m 0 0	0 0 0	<b>m</b> 0 0	m00	
ILEUMNumber	oer examined:	٤	3 3	m	m	м	3	<b>m</b>	m	
JEJUNUMNumber Nematodiasis Cyst, Glandular, Mucosal	oer exemined:	<b>m</b> 00	3 0 0 0 0	<b>m</b> 0 0	m 0 0	<b>200</b>	m 0 0	m 0 0	M O F	
Kidney Inflammation, Interstitial, Subacute Proteinaceous Casts Nephrocalcinosis	oer examined:	<b>m</b> 0 0	3 3 0 0 1 1 0 0	m 0 0 +	m 000	m = 0 0	» + 0 0 0 0	m 0 0 0	m-00	
LACRIMAL GLAND	oer examined:	Mere	3 1 0 0 0	m-00	w0	2000	2 0 0 0 0 0 0	2 0 0	0 0 0	
LIVER  Hepatocellular Vacuolation, Coarse Type  Extramedullary Hematopoiesis Thrombosis, Portal Vein Inflammation, Subscute	er examined:	m N = 00	22 32 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	mm-00	₩ % <del>-</del> 00	mm0-0	mm000	m m 0 0 =	<b>mm000</b>	

PATHOLOGY TABLE 3 (cont.)

Appendix I (cont.): PATHOLOGY REPORT

PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	Ail Study Start	Diagnos Date:	ses 31-Jan-6	8						•	SUB-ACUTE/
Notes: Animals = all dead animals Controls from group(s):10  I is side side if h D is gooses	Animal sex: Dosage group: No. in group:	Ctls	- m	- \ ~ m	я а ( , f е 3	s = 7	× 9 × × × × × × × × × × × × × × × × × ×	7 e c	4 t e 0	70 80 80	6 m
LIVERNumber Pigment-Laden Macrophages, Predominantly Periportal	mber examined: rtal	<b>8</b>		m 0	3	m -		N 0	m 0		8
LUNGS	.Number examined:	w-0	<b>m</b> 0 0	W 0 T	£ 2 0	m 0 0	m 0 0	m 0 0	m 0 0	m 0 0	<b>%</b> F 0
MAMMARY GLANDS	.Number examined:	-	2	-	0	0	_	0	_	0	_
MES, LYMPH NODE	.Number examined:	w 0 t	m∽m	ж 0 г	<b>3</b> 0 3	203	m 0 N	W 0 S	m 0 -	m 0 -	m
OVARIES	Number examined:	м	۳	m	m	m	m	m	m	₩	m
:	Number examined:	m 0 -	m 0 -	× 0 +	<b>m</b> 0 0	m 0 +	m 0 -	m 0 -	m o -	W 0 -	2 - 3
PITUITARY GLAND	Number examined:	<b>m</b> 00	m 0 -	ж о о	w 0 -	w 0 t	m 0 0	m 0 0	m 0 0	203	M-0
PARATHYROID	Number examined: liated	~ -	m 0	<b>m</b> 0	<b>£</b> 0	۳ 0	m -	w -	m =	~ -	٥.
SPINAL CORDNL	Number examined:	*	۳	٣	m	m	m	<u>د</u>	<b>™</b>	٠	~

PATHOLOGY TABLE 3 (cont.)

Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO. CA 94129	Incidence Summary of Study N	mary of Microscopic Study Number: 88008F All Diagnoses	oic Ob 308F	Observations	ions				PRINTED: Page:		04-0ct-89 4
DOG/8EAGLE	Study Start	t Date: 31-Jan-89	Jan-8	•	;						SUB-ACUTE
Notes: Animals = all dead animals Controls from group(s):10 T is sues With Diagnoses	Animal sex: Dosage group: No. in group:	Ctls 3	<b>∀</b> : -m	E . ~ ~ ~ ~	1 a l 3 f e 3	s 1 2 3 3 3 3 3 3	+ i o m	e C t	9 8 M	0 m	
Chronic	Number examined:	m-00	m 0 0	m 0 0 0	 0 0	33 34 34 34 34 34 34 34 34 34 34 34 34 3	m000	M 0 0	m 0 0	000	1 6 1 1
Folliculitis, Subacute Ectasia, Apocrine Glands Dermatitis, Ulcerative	Number examined:	m 0 0	2 + 0	m000	1 1 3	% ← 0 0	m000	0000	m 0 0 -	m000	
SUBMANDIBULAR LM	.Number examined:	<b>2</b> 0	00	00	0 0	00	00	- 0	00		
SKELETAL MUSCLE	.Number examıned:	0 0	<b>m</b> 0	<b>n</b> 0	<b>n</b> 0	F 0	мо	m 0	m -	<b>m</b> 0	
SCIATIC MERVE	.Number examined:	٣	₩	٣	M	w "'	M	m	~	~	
Spleen Siderotic Plaque	Number examined:	m 0	3	0 3	20	ж 0 8	mo	<b>6</b> 0	<b>m</b> 0	w t	
STOMACH	Number examined:	м O	<b>m</b> 0	0 3	m	3 3	m O	<b>%</b> 0	m -	٠ -	
THYROID GLAND	.Number examined:	m –	۰ ۵	<b>x</b> 0	×-	ж 0 ж 0	MO	<b>M</b> 0	m 0	3	
TONSIL(S) Crypt Abscess	Number examined:	mo	mo	2 -	0	w -	mo	0 0	~ 0	<b>5</b> M	
										:	

PATHOLOGY TABLE 3 (cont.)

Appendix I (cont.): PATHOLOGY REPORT

	Microscopic Observations	1025011	oje Ob	Servat	900			ā	NINTED:	PRINTED: 04-0ct-89
DIV OF RES SUPP. PATH SERV GP	Study Number: 88008F	dy Number: 88(	108F						Page: 5	\$
PRESIDIO OF SAN FRANCISCO, LA 9% 129 DOG/BEAGLE	Study Start Date: 31-Jan-89	)ate: 31	Jan-8	•		•	•	1		SUB-ACUTE/
Entes: Anigols a oll dead enigols	* * * * * * * * * * * * * * * * * * *		. ◀	. A n i m a l	S	Affected	f t e	c t e	; p	
Controls from group(s):10	Animal sex: Dosage group:	Ctls	-	. 2	Fema 5 4	ه ر د	;	~	80	
Tissues With Diagnoses	No. in group:	₩.	₩ ;	m	3 3	<u>د</u> :	~	~	~	
TANKETIC STATES OF THE PROPERTY OF THE PROPERT	nber examined:	•	~	٣	3	M	m	~	<b>m</b>	
Date   Care of Date   Care of		-	0	٥	-	_	7	0	_	_
Atrophy		0	0	0	0	0	-	0	0	
TRACHEA	Number examined:	m	٣	~	e e	m	<b>m</b>	m	2	_
	Number examined:	٣	~	₩	8	₩.	<b>~</b> ·	<b>~</b> (	~ ∘	/
		0	0	0	0	0	-	0	<b>&gt;</b>	-
URETERNu	.Number examined:	2	₩	<b>m</b>	M M	<b>m</b>	m	m	m	
UIERUSN.	Number examined:	٣	•	m	3	m	r	m	m	<b>~</b>
		,								

Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129	Incidence Summary of Study Nu	mary of Microscopic Observations Study Number: 88008M Ail Diagnoses	ic Ob 08M	Serva	tions				PRINTED: Page:	0: 04-0ct-89 e: 1	- 89
DOG/8EAGLE	Study Start	Start Date: 07-	07-feb-89	٥						SUB - ACUTE	UTE/
, e n	Animal sex: Dosage group: No. in group:	Ct ls	m	3 2 2	E	3	* * * * * * * * * * * * * * * * * * *	e c t	7 & M	o-m	1 1 ?
SKIN, ANTEBRACH. Inflammation, Chronic Hemorrhage Folliculitis, Subacute	Number examined:	2224	m00-	2001	m	2 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. m < m -	m-00	M - 00	2000	1 1 1
ADREMAL GLANDS	Number examined:	£ 0	m -	m 0	m	E 0	m -	3	ĸ O	<b>x</b> 0	
AORTA	.Number examined:	m m	m ~	~ ~	w	M 4	<b>m</b> 0	m r	m r	m c	
BRAIN		n mooo	mo00	m000			M	MC00	m000	, <b>m</b> 000	
CECUM	Number examined:	м	~	m	۳ د	<b>~</b>	m	₩	r	₩.	
Green Pigment in Macrophages	Number examined:	0 0	00	00	0 0	0 0	00	- ,-	00	- 0	
COLOM	.Number examined:	ĸ	~	~	٠ ۳	3		~	۶	8	
CEPHALIC VEIN	.Number examined:	m -	~ -	<b>x</b> 0	m -	5 3	mΝ	m	m-	2 0	
DIAPHRAGE	Number examined:	м	~	~	₩	8	~	~	m	8	
Note: Entries flagged with a . (minus) are sign two tailed test.	significantly different f	from control	÷ •	the 0	0.05 level	rel using	ing the	e Koln	nogorov	Kolmogorov-Smirnov	•

Appendix I (colt.): PATHOLOGY REPORT

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LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAM FRANCISCO CA 94.129	Incidence Summary of Study Nu All D	Micros umber:	copic Ot 88608M	Serva	tions				ā	Page	. 2 :	PRINTED: 04-Oct-89 Page: 2
DOG/BEAGLE	Study Start	Date: 07-Feb-89	-feb-	68			,	,			SUB	SUB-ACUTE/
Notes: Animals a mil dead animals Controls from anomoles 10	Animal sex:		:	i u v		s e	. A .	<b>.</b>	C t e	;		
	Dosage group:	Ctis	-	2	~	•	S	9	7	<b>«</b> O	۰	
Tissues With Diagnoses	No. in group:	~	~	m	m	m	~	~	<u>~</u>	~ :	<u>~</u>	
DUODENUM	.Number examined:	2	m	~	~	m	~	₩.	<b>m</b>	~	~	
Cyst, Glandular, Mucosal		0		0	0	0	<b>,</b> -	0	0	0	0	
EPIDIDYMUSNu	Number examined:	~	m	٣	m	ю	€	m	£	2	m	
ESOPHAGUSNumber	nber examined:	~	~	m	~	m	m	m	m	~	₩	
EYE	.Number examined:	~	•	m	m	m	m	m	m	m	~	
GALL BLADDER	nber examined:	ĸ	m	m	~	m	m	M	۳	m	m	
MEART	Number examined:	¥ + 0	m 0 0	m 0 0	m 0 0	m 0 0	m 0 0	m 0 0	m 0 ~	m 0 0	m 0 0	
ILEUMNur	.Number examined:	M	~	~	~	~	~	m	<b>M</b>	<b>m</b>	<b>~</b>	
JEJUNUM	nber examined:	<b>6</b>	<b>8</b> 0	۰ 0	<b>m</b> 0	<b>m</b> 0	0 3	m 0	m -	m -	2	
KIDNEY	iber examined:	m0000	m-0-0	m-000	mo-00	m0000	M-000	m0000	W00	m0000	# 2 0 0 +	
LACRIMAL GLAND	.Number examined:	no	£ 0	8 0	m 0	m o	٠ o	<b>r</b> 0	<b>£</b> 0	r 0	5.3	

PATHOLOGY TABLE 4 (cont.)

Appendix I (cont.): PATHOLOGY REPORT

DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	Study Number: 88008M All Diagnoses Study Start Date: 07-Feb	umber: 88 Diagnoses Date: 07	88008M es 07-feb-89	6						<i>S</i>	SUB-ACUTE/
Notes: Animals ≈ all dead animals Controls from group(s):10 T is sues With Diagnoses	Animal sex: Dosage group: No. in group:	Ctls	- m	n 1 3	8 :- 8 :- 8 :-	2 4 4 E	3 S S S S S S S S S S S S S S S S S S S	f e c	9 8 M	0 m	
LIVER  Hepatocellular Vacuolation, Coarse Type Extramedullary Hematopoiesis Inflammation, Subacute	Number examined:	mm00		. m 200	m 200	mm00	mm+0	mm	m ~	mm-0	, , , , ,
LUNGS	Number examined:	M00-F0	w-000	m0000-	m00000	m00000	m00000	W 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M000	M00000	
MAMMARY GLANDS	Number examined:	-	7	-	0	m	0	-	0	0	
MES. LYMPH NODE	Number examined:	moo	₩ 2 0	m ~ 0	m m o	m 0 0	m-0	2 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	m~-	w-0	
PANCREAS Cell Atrophy	Number examined:	m	мo	<b>*</b> 0	۳ o	m -	m	3 3	<b>*</b> 0	<b>m</b> 0	
PITUITARY GLAND	Number examined:	m 0	m O	m 0	M	m o	m -	× 0	m -	0 0	
PROSTATE	Number examined:	moo	m 0 0	r00	m00	m00	moo	x 0 0	m-0	201	

two tailed test.

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LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	Incidence Summary of Study Nu Ali E Study Start	micros umber: Diagnos Date:	88008M es 07-feb-89	-89					•	: • 6 e	e: 4 SUB-ACUTE
Notes: Animals = all dead animals Controls from group(s):10 I is sues With Diagnoses	Animal sex: Dosage group: No. in group:	Ctls 3	- m	4 2 K	E   MM	0 <b>8</b> 7 M	e A A	+ on	c t e	0 & m	o m
PARATHYROID	.Number examined:	m 00	2 - 0	m 0 0	m 0 -	000	m 0 0		200	200	m 0 0
SPINAL CORD	.Number examined:	٣	٤	٣	m	M	٣	m	~	~	3
SALIVARY GLAND	.Number examined:	<b>∞</b> -	<b>m</b> 0	m o	<b>m</b> 0	m 0	<b>m</b> 0	<b>m</b> 0	۳ o	w 0	٠ 0
SKIN Folliculitis, Subacute	.Number examined:	<b>м</b> О	<b>m</b> 0	w -	1	mo	<b>m</b> 0	w	<b>m</b> 0	0	<b>x</b> 0
SKELETAL MUSCLE	.Number examined:	٣	٣	m	m	m	ĸ	m	m	~	×
SCIATIC NERVE	.Number examined:	٣	M	m	٣	٣	m	٣	m	<b>m</b>	£
SPLEEN	.Number examined:	m00	M	m 0 0	m 0 0	<b>m</b> 0 0	<b>8</b> 00	m 0 0	w + 0	m 0 0	<b>m</b> 0 0
STOMACH	.Number examined:	m	٣	m	ъ	m	м	٣	₩	<b>~</b>	3
TEST1S	.Number examined.	m	m	m	м	m	m	m	m	2	2
THYROID GLAND	.Number examined:	m	м	m	m	m	ъ	m	m	<b>m</b>	3
TOWSIL(S)	.Number examined:	m00	m 0 0	m 0 0	<b>m</b> 0 0	m 0 0	m00	m	moo	m 0 0	M 0 -

PATHOLOGY TABLE 4 (cont.)

Appendix I (cont.): PATHOLOGY REPORT

: Italian			 		1						
<b>-</b>	Incidence Summary of Microscopic Observations Study Number: 88008M	Study Number: 88008M	ic 0b	Serva	ions			Δ.	RINTED: 0. Page: 5	PRINTED: 04-Oct-89 Page: 5	- 89
PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	Ail Diagnoses Study Start Date: 07-Feb-89	All Diagnoses tart Date: 07-	feb-8	<b>o</b> -			•	•	•	SUB-ACUTE,	UTE/
Notes: Animats = all dead animals	X d D T C E C Q	· · · · · · · · · · · · · · · · · · ·	<b>«</b>		S 1 8 E	<b>4</b> 0	A f f e	cte	; p		
Lontrols from group(s):Tu	uosage group: No. in group:	5113	- m	2 %		, w w	øn ,	~ m	80 m	0 M	;
THYMUS	Number examined:	. ~ -		คอ	n 0	m 0	mo	<b>m</b> 0	2-	<b>m</b> 0	
TRACHEA	.Number examined:	mo	r 0	٠ 0	ж 0	m O	mo	n 0	m O	<b>m</b> 0	
URIMARY BLADDER	Number examined:	m000	m000	m00-	m000	m 0 0 0	m000	m000	m000	m0	
URETER No.	Number examined:	ĸ 0	<b>м</b> о	ĸ 0	m 0	m o	m 0	m o	m o	. L	

Appendix I (cont.): PATHOLOGY REPORT

CHSummary 9	Table of Microscopic Observations With Average Study Number: 88008F Nonneoplastic Graded Diagnoses Study Start Date: 31-Jan-89	roscopic Observations With Ave Study Number: 88008F Nonneoplastic Graded Diagnoses Study Start Date: 31-Jan-89	8008F B008F Diag	1 Aver	9 9 9		Sever Ly Sidoe			Page		outroctray 1 Sub-Acute/
Notes: Animals = all dead animals Controls from group(s):10 T is sues With Diagnoses	Animal sex: Dosage group: No. in group:	Ctls 3	· ~ ~	4 4 8 8	# . # . # .	0 E 7 M	4 e 2 x	3 ¢ ; ¢	2 7 %	4 8 K	. a m	
SKIN, ANTEBRACH	Number examined: Average severity:	3 1 1 0 . 7	2.3	0.0	2 1 2.0	3.0	w % 0.	m 0 m	2.0	2 2 3.0	n - n.	1 1 1 1
Subcutaneous Hemorrhage	Average severity:	1.3	0.0	1.7	3.0	1.0	2.1	-0.	- m	3.0	1.0	
Folliculitis, Subacute	Average severity:	0.0	0.0	0.0	0.0	0.0	1 0.7	. 0.0	2.1	0.0	0.0	
ADREWAL GLANDS	Number examined: Average severity:	3 0 0.0	м 0.0	1 0.7	3 0.0	.00 0.0	n 0 0 0	, o .	0.0	3 0.0	0.0	
Vacuolar Change, Cortical Cells	Average severity:	0.0	0.0	0.3	1 0.7	0.0	0.0	0.0	0.0	1.0	0.3	
AORTA	Number examined:	~	m	m	٣	m	~	~	٣	٣	~	
BONE MARROW	Number examined:	m	m	M	٣	m	m	7	~	~		
2 X X X X X X X X X X X X X X X X X X X	Number examined:	m	m	m	~	8	m	~	2	~	~	
CECUM	Number examined:	₩	m	m	ъ	~	m	2	~	~	~	
Granuloma, Submucosal, Foreign-Body	Number examined: Average severity:	3 0.0	30.0	3 0.0	30.0	3 0.3	0.0	0.0	3 0.0	3 0.0	۰.0 0.0	

## PATHOLOGY TABLE 5

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PATHOLOGY
(cont.)
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Appendix

LETTERMAN ARMY INSTITUTE OF RESEARCHSummary Table DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/B' GLE	of Microsco Nonne	pic Observations With Ave Study Number: 88008F oplastic Graded Diagnoses y Start Date: 31-Jan-89	ns With A 88008F d Diagnos 31-Jan-89	h Aver noses -89	age S	veri	y Gra	<b>9</b>	84	PRINTED:	: 04-0ct-89 : 2 SUB-ACUTE/
Notes: Animals = all dead animals Controls from group(s):10 T is sues With Diagnoses	Animal sex: Dosage group: No. in group:	ctls 3	- m	A 2 W		8 E 7 M	A † 5 5 5 3	4 e c	t e 7	3 8 6	6 F
CEPHALIC VEIN	.Number examined: Average severity:	3 1 0.7	3 2 1.7	3 0.0	2 1 1 0 .5	22.2	w w	3 2 .7 0.	3 2 1 0 3 0.0	. 0	0.00
DIAPHRAGM	.Number examined:	2	٣	2	2	m	٣	٣	m	~	5
	.Number examined: Average severity:	0.0	3 0 0.0	3 0.0	× 0.0	w 0 · 0	3 0.0 0.0	3 0.0 0.0	ж 1 0.0 ж	3 3 0 0 0	m 0 0
ESOPHAGUS	.Number examined: Average severity:	3 0 0.0	8 0 0.0	3 0.0	3 2 0 . 7 . 0	w 0.0	3 0.0 0.0	m 0 0.	8 3 0 0.0	8 0 0 0	<b>%</b> 00
£ YE	.Number examined:	٤	m	٣	٣	~	ĸ	8		~	8
	.Number examined:	M	M	m	8	~	m	3	m	₩.	<b>S</b>
HEARTThrombosis, Valvular	.Number examined: Average severity:	<b>8</b> 0.0	3 0.3	30.0	. 0.0	w 0.0	3 0 0.0 0	3 0.0 0.0	3 3 0 0 0 0.0	3 3 0 0 0 0.0	m 0 0
Epicarditis, Subacute	Average severity:	0.0	0.3	0.0	0.0	0.0	0.0	0.0 0.0	0.00.	0.00	0 0
1LEUM	.Number examined:	m	~	٣	2	m	m	æ	m	~	<b>~</b>
JEJUNUM	.Number examined: Average severity:	3 0 0.0	3 0.0	3 1 0.3	. 0 · 0	3 0.0	2 0 0.0 0	3 3 0 0 0.0 0.0	0.	3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<b>m</b> 0 0

PATHOLOGY TABLE 5 (cont.)

Appendix I (cont.): PATHOLOGY REPORT

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IRMY INSTITUTE OF RESEARCHSUMMAC SUPP, PATH SERV GP SAN FRANCISCO, CA 94129	y Table of Microscopic Observations With Average Study Number: 88008f Nonneoplastic Graded Diagnoses	Servations Wit Number: 88008F ic Graded Diag	8 With 8008F Diagn	Avera		Severity Grade	Grade		PRINTED: Page:		t-89
DOG/8EAGLE	Study Start Date: 31-Jan-89	t Date: 5	-Jan-	× ×	1					SUB-ACUTE	cute/
Notes: Animals = all dead animals				. C <b>A</b>		 		e C C	e d		
Controls from group(s):10 Tissues With Diagnoses	Animal sex: Dosage group: No. in group:	Ct { s	٦ ٢	~ w	• - - - -	E 4 W	i om s	3.4	8 M	o m	
TETRING.	Number examined:	mo		; m	; , m	M	mc	m	m	, m	1 1 1
Cyst, Glandular, Mucosal	Average severity:	0.0	0.0		0.0 0.0	0.0	0.	0.0	0.0	0.3	
KIDNEY	Number examined:	mc	m	m	mc	m c	M) F	mc	mc	m-	
inflammetion, interstitiet, subacute	Average severity:	0.0			0.0 0.0	0 0.3	0.7	0.0	0.0	0.3	
Proteinaceous Casts	Average severity:	0.0	1 0.3	0.3	0.0 0.0	0.0	0.0	0.0	0.0	0.0	
Nephrocalcinosis	Average severity:	0.0	0.0	0.0	1 0.3 0.0	0.0	0.0	0.0	0.0	0.0	
LACRIMAL GLAND	Number examined:	~ ⊷	~ ←	m o	~ -	3 2	2 -	no	20	2 0	
רי היים מיים מיים	Average severity:	0.3	0.3		0.3 0.3		0.5	0.0	0.0	0.0	
Acinar Atrop' /	Average severity:	0.3	0.0	0.0	0.0 0.3	3 0.0	0.0	1.0	0.0	0.0	
Lymphocytic Itration	Average severity:	0.7	0.0	0.0	0.0 0.0	0 0.0	0.0	0.0	0.5	0.0	
LIVER		m N 0	m 0 r	mm c	m m n	# N M	mmo	MM	m m h	mmo	
Extramedullary Hematopolesis	Average severity: Average severity:	0.1			2.7  .3 1 1 0.3 0.3	0 - E	0.0	0.0	0.0	0.0	

PATHOLOGY TABLE 5 (cont.)

Appendix I (cont.): PATHOLOGY REPORT

Append	ndix i (conc.).	FAIROTOGI	1007	NEE CAL	1					
LETTERMAN ARMY INSTITUTE OF RESEARCHSummary I DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	Table of Microscopic Observations With Average Study Number: 88008f Nonneoplastic Graded Diagnoses Study Start Date: 31-Jan-89	pic Observations Wit Study Number: 88008F oplastic Graded Diag y Start Date: 31-Jan	With A 008F Diagnos Jan-89	iverage es	Sever	Severity Grade	.ade	•	PRINTED: Page:	0: 04-0ct-89 e: 4 SUB-ACUTE/
Notes: Animals = all dead animals Cortrols from group(s):10	Animal sex:		<b>V</b>		2 L S F E B F	. 4 9 5	+ + s	c t	;; • • •	6
Tissues With Diagnoses	No. in group:	2 20	- <b>M</b>	. w	M	'n	m	'n	· ~	. ~
LIVER	Number examined:	mc	mc	<b>x</b> c	mc	×-	m c	m c	٥ م	<b>m</b> c
Thrombosis, Portal Vein	Average severity:	0.0		0.	0.0	0.7	0.0	0.0	0.0	o o .
Inflammation, Subacute	Average severity:	0.0	0.7 0	0.0 0.0	0.0	0.0	0.0	0.0	0.3	0.0
Pigment-Laden Macrophages, Predominantly F	Periportal Average severity:	0.0	0.0	0.0 0.0	0.7	0.0	0.0	0.0	0.0	0.0
LUNGS Interestitial, Subscute	Number examined: Average severity:	w - w.	0.00	3 3 0 2 0.0 1.0	w 0 0 0	w 0.0	.00 0.0	w 0 .0	30.0	w-0.
Granuloma		0.0			0.0	0.0	0.0	0.0	0.0	0.0
MAMMARY GLANDS	Number examined:	-	2	1 0	0	-	0	-	0	-
MIS. LYAPH NODE	Number examined: Average severity:	<b>6</b> 0.0	3 1 0 0 3 0	3 3 0 0 0.0 0.0	0.0	<b>m</b> 00.0	3 0.0	3 0.0	£ 0.0	× 1 0 . 7 . 0
Congestion and/or Hemorrhage of the Medulla	la Average severity:	1.0	3 1.7 0	2 2 0.1 1.0	1.3	2.0	1.0	10.3	1.0	0.3
OVARIE	Number examined:	m	٣	m	m	m	~	٣	٣	3

PATHOLOGY TABLE 5 (cont.)

Arzendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCHSummary Table of DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	Microsco Nonne Stud	pic Observations With Study Number: 88008F oplastic Graded Diagr y Start Date: 31-Jan	s Wit 8008F Diag		Average ses		Severity Grade	rade	, ,	M d	PRINTED:	04-0ct-89 5 SUB-ACUTE/
Notes: Animals = all dead animals Controls from group(s):10 Tissues With Diagnoses	Animal sex: Dosage group: No. in group:	crts 3	w	A 2	i m a	e s 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	a ( *	+ s 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	e c t	e d 3	0 m	
PANCREASNumber Acinar Hypertrophy and Vacuolation Average	ber examined: age severity:	0.0	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0	0.0	3 0.0	0.0	3.0	٠ 0 0.0	0.0	3.0	
Asinar (Exocrine) Cell Atrophy Average	age severity:	0.3	0.7	0.3	0.0	0.3	0.7	1.0	0.3	0.3	1.0	
PITUITARY GLANDNumber Histiocycosis	ber examined: age severity:	8 0.0	3 0.0	3 0.0	.0 0.0	30.0	3 0 0.0	30.0	3 0 0.0	3 0.0	3 1 0.7	
Cyst(s) Average	age severity:	0.0	0.3	0.0	1.0	0.3	0.0	0.0	0.0	1.0	0.0	
PARATHYROIDNumber Ultimobranchial Cyst, Ciliated or Non-Ciliated Average	ber examined: age severity:	1.0	3 0.0	3 0 0.0	<b>8</b> 0.0	.0 0.0	3 1 0.7	3 1 0.7	3 0.7	3 1 0.3	2 1 0.5	
SPINAL CORDNumb	Number examined:	m	~	~	٣	₩	m	m	m	m	٣	
SALIVARY GLANDNumber Inflammation, Chronic	ber examined: age severity:	3 1 0.3	30.0	0.0	٠.0 0.0	0.0	W 0 0.	0.0	3 0 0.0	3 0 0.0	0.0	
Duct Ectasia Average	Bge severity:	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	
Atrophy, Acinar Average	Bge severity:	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	

PATHOLOGY TABLE 5 (cont.)

ppendix I (cont.): PATHOLOGY REPORT

Appendix	dix 1 (cont.):	PATHOLOGY	Z S O	KEFOKI	)K.I					
ARCHSummary 129	Table of Microscopic Observations With Average Study Number: 88008F Nonneoplastic Graded Diagnoses Study Start Date: 31-Jan-89	pic Observations With Study Number: 88008F oplastic Graded Diag y Start Date: 31-Jan	lith Av 18F agnose an-89	erage S	Severity Grade	ity G	rade		PRINTED: Page:	: 04-0ct-89 : 6 SUB-ACUTE/
Notes: Animals = all dead animals Controls from group(s):10 T is sues With Diagnoses	Animal sex: Dosage group: No. in group:	Ct1s	A 3		, s e 3 v	a L e	- " o m	ه د <del>د</del>	a	
SKIN	Number examined: Average severity:	3 2 1 1 0.3 0.5	2 3 1 0 5 0.0	W + 1.0	3 1 0 3	3 0.0	0.0	0.0	3 3 0 0 0.0 0.0	
Ectasia, Apocrine Glands	Average severity:	0.0 0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.000.0	00
Dermatitis, Ulcerative	Average severity:	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3 0.0	0.0
SUBMANDIBULAR LN	Number examined: Average severity:	2 0 0 0 0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 2.0	0
SKELETAL MUSCLE	Number examined: Average severity:	2 3 0 0 0.0 0.0	3 3 0 0 0.0	, 0 0.0	m 0 0.	₩ 0.0	w 0.0	ه 0.0	3 3 1 0 1.0 0.0	<b>M</b> a a
SCIATIC NERVE	Number examined:	ĸ	3 3	3	~	8	٣	m	5	~
Spleen Siderotic Plaque	Number examined: Average severity:	3 3 0 0 0.0 0.0	3 3 0 0 0 0.0	3 0.0	0.0	30.0	0.0	0.0	3 3 0 0 0 0.0	<b>n</b> -n
STOWACH	Number examined: Average severity:	3 3 0 0 0.0 0.0	3 3 0 0 0 0.0	3 0.3	ه 0.0	, 0 0.0	0 0	, 0.0	3 3	Mak

PATHOLOGY TABLE 5 (cont.)

Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCHSummary Table of Microscopic Observations With Average SLUP OF RES SUPP, PATH SERV GP	Microscopic Observations Wit	ions W1 : 88008	th Ave	rage S	everit	Severity Grade	<b>d</b> i	PRIN	NTED: Page:	PRINTED: 04-Oct-89 Page: 7
PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	Monneoplastic uraded Diagnoses Study Start Date: 31-Jan-89	ded 018	1900ses							SUB-ACUTE/
Notes: Animals = all dead animals Controls from group(s):10	Animal sex:	, <u>.</u>	и <b>ч</b>	. E .	8 S = 7	. A +	f e c	t e d	•	
Tissues With Diagnoses No.	group:	. w	m	m	· M	· •••	3	· ~	M	
THYROLD GLAND	r examined:	× +	me	m-		mo	800	no	, n c	
Average	severity:	0.3 0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	
TONSIL(S)Number	r examined:	m c	2 -	~ 0	w -	mc	80	20	<b>5</b> 0	
C. Tr. Absense	severity:	0.0 0.0	0.5	0.0	0.3	0.0	0.0	0.0	1.7	
	r examined:	M+	mo	m +	m +	m -	<b>8</b> 0	M F	mc	
Ditimobranchial Lyst, Citiated of Non-Citiated Average	severity:	0.3 0.0	0.0	0.3	0.3	0.3 0.7	7 0.0	0.3	0.0	
Atrophy	severity:	0.0 0.0	0.0	0.0	0.0	0.0 0.7	0.0 7	0.0	0.0	
TRACHEANumber	.Number examined:	3 3	m	M	m	m	×	m	~	
URINARY BLADDER	r examined:	mo	mo	m	mo	m	m c	mc	m	
Lymphocyte Intittation Average	severity:	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
URETERNumber	r examined:	2 3	m	٣	m	m	m ~	m	~	
UTERUSNumber	Number examined:	3	m	м	٣		3	~	٣	

PATHOLOGY TABLE 5 (cont.)

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Appe	Appendix I (cont.):	PATE	PATHOLOGY		REPORT					
LETTERMAN ARMY INSTITUTE OF RESEARCHSummary Table of DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	Microsco Nonne Stud	pic Observation Study Number: 8 oplastic Graded y Start Date: 0	ons With 88008M ed Diagr 07-Feb-	Avere	ge Seve	erity	Grade		PRINTED: Page:	NTED: 04-Oct-89 Page: 1 SUB-ACUTE/
Notes: Animals = all dead animals Controls from group(s):10  T is sues With Diagnose	Animal sex: Dosage group: s No. in group:	ctls 3	- m	A 1 i 8	# K K		A f f f s s s s s s s s s s s s s s s s	e c t	е d ч	o m
SKIN, ANTEBRACH	Number examined: Average severity:	3 2 1.3	0.0	m 0.0	3 0.7 0.9	1.7	1.3	2 - 0 - 7 - 0	3 1 0 . 7	2 0 0.0
немогладе	Average severity:	2.0	0.0	1.7 (	0.7 0.0	2.0	3.7	0.0	0.0	0.0
Folliculitis, Subscute	Average severity:	0.7	0.3	0.3	0.3 0.0	0 0.7	0.3	0.0	0.0	0.0
ADRENAL GLANDS	Number examined: Average severity:	8 0.0	3 0.3	3 0.0	3 3 1 0 0.7 0.0	5 0.7	8 10.3	0.0	, o o o o	m 0.0
AORTA	Number examined:	m	٣	~			m	₩	m	m
BONE MARROW	Number examined:	٣	m	M	m	3 2	7	m	m	2
Inflammation, Subacute, Choroid Plexus	Number examined: Average severity:	0.0	3 0.0	3 0.0	3 3 1 0.7 0.0	7.0 0	3 0.3	0.0	× 0.0	۳ 0 · 0
Hemorrhage, Acute	Average severity:	0.0	0.0	0.0	0.0 0.0	0.3	0.7	0.0	0.0	0.0
Hemosiderin in Macrophages	Average severity:	0.0	0.0	0.0	0.0 0.0	0.0	0.7	0.0	0.0	0.0
CECUM	Number examined:	M	8	m	m	ε E	m	٣	<b>m</b>	~

Appendix I (cont.): PATHOLOGY REPORT

		Study Start Date:		Study Start Date: 07-feb-89	68							SUB-ACUTE,
Notes: Animals = all dead animals Controls from group(s):10 Tissues With Diagnoses	Animal Dosage gr	al sex: group:	ctls	;; -m	A n i	8 . M M			+ 0w	0 t		o m
Green Pigment in Macrophages	Average Se	examined: severity:	0.0	0.0	0.0	0.0	2.0	0.0	0.0	1.0	0.00	0.0
COLOM	Number ex	examined:	m	m	٣	٣	m	٣	M	~	m	3
CEPHALIC VEIN	Number ex Average se	examined: severity:	1.0	3 1 1 3	3 0.0	3 1 0 .3	1.0	2 2 2 5 5 5	1.7	3 1 0 3	3 1 0	2 0 0.0
DIAPHRAGM	Number ex	examined:	m	m	m	m	m	m	m	M	٣	3
Cyst, Glandular, Mucosal	Number ex Average se	examined: severity:	3 0.0	3 0.3	0.0	¥ 0.0	.00 0.0	w 1 0.3	ه 0.0	0.0	ه 0.0	3. 0.0
EPIDIDYMUS	Number ex	examined:	8	8	M	M	3	~	m	~	7	3
ESOPHAGUS	Number ex	eλamined:	м	٣	٣	m	٢	~	m	~	٣	3
EYE	Number ex	examined:	m	£	m	٣	m	~	m	m	٣	m
GALL BLADDER	Number ex	examined:	~	٣	٣	m	m	~	٣	M	٣	m
HEARTEndocardiosis, Valvular	Number ex Average se	examined: severity:	10.7	۶ 0.0	30.0	0.0	× 0.0	0.0	30.0	۶ 0.0	3 0.0	ه 0.0
Endocarditis, Valvular	Average se	severity:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
1LEUM	Number examined:	amined:	m	٣	m	<b>~</b>	٣	m	m	m	m	r

#### PATHOLOGY TABLE 6 (cont.)

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Appendix	1x 1 (cont.):	PATHOLOGI	9070		KEFOKI	7						
LETTERMAN ARMY INSTITUTE OF RESEARCHSummary To DIV OF RES SUPP, PATH SERV GP	Table of Microscopic Observations With Average Study Number: 88008M	pic Observations With Ave Study Number: 88008M	With 3008M	Aver		everi	Severity Grade	ade		PRINTED: Page:	NTED: 0, Page: 3	04-0ct-89 3
PRESIDIO OF SAN TRANCISCO, CA VAICA DOG/BEAGLE	Study Start		07-Feb-89	89			,				Š	SUB-ACUTE/
Notes: Animals = all dead animals	1			, u V		. s	<		e c t	9		,
Controls from group(s):10 Tissues With Dimonoses	Animal sex: Dosage group: No. in group:	Ctls 3	~ M	~ ~	; mm	_ 0 4 W	& 25 &	, o m	~ m	ωM	о- m	
MITTER U.S.	, K					-		,		·	~	
Enteritis, Acute	Average severity:	0.00	0.0	0.0	0.0	0.00	0.0	0.0	0.3	· · · ·	0.00	
KIDNEY	Number examined:	m	κ.	m -	m	m	m·	mc	m	m	m	
inflammation, interstitial, subacute	Average severity:	0.0	0.3	0.7	0.0	0.0	0.3	0.0	0.0	0.0	1.0	
Mephrocalcinosis	Average severity:	0.0	0.0	0.0	. o	0.0	0.0	0.0	. o	0.0	0.0	
Proteinaceous Casts	Average severity:	0.0	1 0.3	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
Infarct	Average severity:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	
LACRIMAL GLAND	Number examined:	mo	۰ ۵	m 0	m o	m o	m 0	m o	m o	m 0	mN	
	Average severity:	0.0	0.0			0.0	0.0	0.0	0.0	0.0	1.0	
2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Number examined:	M M	ю н	M C	₩ (	m	MH	m	M 14	<b>m</b> 0	mw	
Mepatocettutar Vacuotation, Coarse Type	Average severity:	1.7	2.0			2.0	1.7	2.3	2.0	1.0	2.3	
Extramedullary Hematopoiesis	Average severity:	0.0	- r.	0.0	0.0	0.0	0.3	0.0	0.3	0.3	1 0.3	
Inflammation, Subscute	Average severity:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	

PATHOLOGY TABLE 6 (cont.)

ppendix I (cont.): PATHOLOGY REPORT

RCH Summa: 29	y Table of Microscopic Observations With Average Severity Grade Study Number: 88008M Nonneoplastic Graded Diagnoses Study Start Date: 07-Feb-89	pic Observations With Ave Study Number: 88008M oplastic Graded Diagnoses y Start Date: 07-Feb-89	8008M 0189	h Avei noses -89	. age S	ever	ty Gr	ade		9K 9K 9F	PRINTED: 04. Page: 4 SUE	04-0ct-89 4 SUB-ACUTE/
Notes: Animals = all dead animals Controls from group(s):10  T is sues With Liagnoses	Animal sex: Dosage group: No. in group:	Ctls	; - M	= NM	E . N		. 4 % V W	4 9 8	e c t	. a a w	0 M	1 1 1 1
LUNGS	Number examined: Average severity:	0.0	1.0	m 0 0 0	3 0.0	0.0	0.0	v 0 .0	m 0 · 0	0.0	» 0.0	
Thrombosis	Average severity:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
Inflammation, Interstitial, Surute	Average severity:	0.3	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1 0.3	0.0	
Granuloma	Average severity:	1 0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Alveolar Proteinosis	Average severity:	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MAMMARY GLANDS	Number examined:	-	7	<b>,-</b>	O	m	0	-	-	0	0	
MES. LYMPH WODE	Number examined: n Average severity:	3.0 0.0	2 2 2 2	ه 2 1.0	www	30.0	1 0.7	2 1 0.5	3 1.0	w 5 m.	3 0,3	
Sinus Meutrophilia	Average severity:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.3	0.0	
PANCREAS	Number examined: Average sever 'y:	£ + 0.0	3 0.0	\$ 0 0.0	د 0 0.0	1 0.7	3 1 0.3	.00 0.0	E 2 E.	3 0.0	3 0.0	

PATHOLOGY TABLE 6 (cont.)

Appendix I (cont.): PATHOLOGY REPORT

CHSummary 9	Table of Microscopic Observations With Average Stucy Number: 88008M ≋onneoplistic Graded Diagnoses Study Start Date: 07-Feb-89	pic Observations With Ave Study Number: 88008M oplistic Graded Diagnoses y Start Date: 07-Feb-89	B8008M B008M ed Diagnos 07-Feb-89	A Ave		ever	Severity Grade	e de		PRINTED: Page:		04-0ct-89 5 SUB-ACUTE/
Notes: Animals = all dead animals Controls from group(s):10 T is sues With Diagnoses	Animal sex: Dosage group: No. in group:	Ctls 3	- m	c 0 m	e	7 E B B C	M V W	+ 0m	0 t	7 7 8 8		
PITUITARY GLAND	Number examined: Average severity:	0.0	0.0	0.0	3 1 0 . 7	m 0 0 0	0.3	m-m	, s	. m ~ m.o	0.0	: : : : :
PROSTATE	Number examined: Average severity:	¥ 0.0	100	.00 0.0	0.0	m 0 0 0	м 0.0	0.0	. 0 0.0	3 0.3 1.0	ه 0.0	
Inflammation, subacute	Average severity:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	
PARATHYROID	Number examined: Average severity:	8 0.0	2 1 0.5	.00 0.0	8 0 0.0	0.0	0.0	м 0.0	0.0	0.0	8 0.0	
Cyst, Ciliated or Non-Ciliated	Average severity:	0.0	0.0	0.0	1 0.7	0.0	0.0	0.0	0.0	0.0	0.0	
SPINAL CORD	Number examined:	m	m	m	m	m	m	m	m	m	٣	
SALIVARY GLAND	Number examined: Average severity:	w-w.	.0 0.0	.00 0.0	0.0	m 0 0.0	ه 0.0	w 0 0.0	w 0 0.0	» 0.0	0.0	
SKIM	Number examined: Average severity:	w 0 0 0	3 0.0	1.0	2 4 0.5	× 0 0 .	w 0 0 0	w - w	w 0 0 .	0.0	m 0.0	
SKELETAL MUSCLE	Number examined:	m m	мм	m m	м м	m m	м м	m m	м м	m m	n n	

PATHOLOGY TABLE 6 (cont.)

Appendix I (cont.): PATHOLOGY REPORT

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LETTERMAN ARMY INSTITUTE OF RESEARCHSummary T DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	ry Table of	Microscopic Observations With Average Study Number: 88008M Nonneoplastic Graded Diagnoses Study Start Date: 07-Feb-89	pic Observations With Study Number: 88008M oplastic Graded Diag y Start Date: 07-Feb	With 3008M Diagn	Aver soses 89		Severity	y Grade	e D	<u>a</u>	PRINTED: Page:	04-0ct-89 6 SUB-ACUTE/
Notes: Animals = all dead animals Controls from group(s): 0  T is sues With Diagnoses	Doson	Animal sex: Dosage group: No. in group:	CTES	: -m	A 2 %	e . mm			3 ¢ , ± ,	c t e	3 8 6 7 7 7 8 8 8 9 8 9 8	
SPLEEN	Number	r examined: e severity:	0.0	3 1 0 .3	3 0 0 0	3 0.0	3 0.0	3 0 0 0	3 3 0 1 0.0 0.0	:	3 3 0 0 0.0 0.0	
Accessory Spleens	Average	e severity:	0.0	0.3	0.0	0.0	0.0	0.00	0.0 0.0	0.0	0.0 0.0	
STOMACH	Number	r examined:	m	٣	m	m	m	m	m	m	м	
TEST1S	Number	r examined:	٣	m	~	m	m	٣	m	₩	2	
THYROID GLAND	Number	r examined:	m	٣	m	m	<b>m</b>	m	٣	۳	₩.	
TONSIL(S)	Number Average	r examined: e sever ty:	3 0 0.0	30.0	3 0.0	3 0.0	, 0.0	3 0.0 0.0	3 1 0.3 0.	3 0.0	3 3 0 0 0.0 0.0	
Crypt Abscess	Average	e severity:	0.0	0.0	0.0	0.0	0.0	0.0	0.3 0.	0.0 0.0	0 0.7	
THYMUS	Number Liated Average	r examined: e severity:	3 0.3	3 10.7	0.0	3 0.0	0.0	3 0.0	3 0.0 0.0	3 2 0 1 0.0 0.5	2 3 1 0 5 0.0	
TRACHEA	Number Average	r examined: e severity:	% 0.0	3 0.0	3 0.0	0.0	w - 0.	3 0.0	3 3		3 3 0 0 0.0 0.0	

PATHOLOGY TABLE 6 (cont.)

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Appendix

ESEARCHSummary	Tuble of Microscopic Observations With Average Severity Grade Study Mumber, ARONRM	pic Observations With	S With	Aver	age Se	verit	y Gre	qe	•	Page: 7	PRINTED: 04-0ct-89 Page: 7
DIV OF RES SUPP, PAIN SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	Nonneoplastic Graded Diagnoses Study Start Date: 07-feb-89	ic Graded t Date: 0	Diagn 7-feb-	oses 89		ì	;			,	SUB-ACUTE/
Notes: Apigals a all dead spissls	, , , , , , , , , , , , , , , , , , ,	! ! ! !			] e E	, s	< <		ct	; p	
Controls from group(s):10	Animal sex: Dosage group:	Ctls	s 1 2 3 4 5 6 7 8	7	# ; M	a 4	S S	, <b>o</b> i	~	80 1	6 1
Tissues With Diagnoses	No. in group:	~	<u>د</u>	<u>ب</u>	2	<b>~</b>	<b>~</b>	ς :	~ :	•	5
URINARY BLADDER	Number examined:	MC	nc	mc	3 3 3 3 3 3	m c	۰ ۵	<b>m</b> 0	m 0	ж о ж т	× -
Memorrhage, Submucosal, Acute	Average severity:	0.0	0.0	0.0	0.0	0.	0.0	0.0	0.0	0 0.0	2
- Vachocyfe Infiltration		0		0	0	0	0	0	0	0 0	-1
	Average severity:	0.0	0.0	0.0	0.0	- 0.	0.0	0.0	0.0	0.0	_
Thrombosis	Average severity:	0.0	0.0 0.0 0.3 0.0	10.3	0.0	00	0.0 0.0 0.0	00.0	0.0	0.0 0.0	0 0.
	Deciment return	, ~	<b>~</b>	m	m	~	M	m	m	M	3
UKEIEK	Average severity:	0.0	0.0 0.0 0.0	0.0	0.0	00.	0.0 0.0 0.0 0.0	0.0	0.0	0.0 0.7	٠.

its (gms) PRINTED: 04-0ct-89 Page: 1	SUB-ACUTE/
Group Comparison Statistics for Absolute Organ Weights (gms) Study Number: 88008F	PRESIDIO OF SAN FRANCISCO, CA 94129 Report includes all dead animals (All subgroups) Study Start Date: 31-Jan-89 Study Start Date: 31-Jan-89
LETTERMAN ARMY INSTITUTE OF RESEARCH	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE

					֡					
Group Control	Control	· · · · · · · · · · · · · · · · · · ·	2		· .	ي د د	(4 <b>(</b> 2)	~ m	80 K	o m
	931.9	471.1	531.7	536.6	325.0	382.7	387.6	372.3	391.6	424.2
CONTRACTOR CONTRACTOR	25.2	8 92	108.1	65.0	8.79	91.5	11.7	36.1	60.7	106.1
SCHOOL DISCOUNT OF THE PARTY OF	:	114.2*	114.2*	114.2*	114.2	127.7	114.2	114.2	114.2	114.2
Group diff.a P=.01		156.1	156.1*	156.1*	156.1	174.5	156 1	156.1	156.1	156.1

				F e B e L	female Animals	i ma de 1 s		,		
Organ: KIDNEY	Contro	ols from group: 10	roup: 10	Data	Data homogeneous by Bartlett's test (Fisher's (sd test)	by Bartlet	t's test	(Fisher's	(sd test)	
:			~	M	₹ <b>₹</b>	\$	9	7	æ	٥
	,	- ~	ı M	M	~	m	٣	m	m	m
	e 7	55.0	7.09	55.7	53.8	50.0	52.6	6.54	52.8	55.0
	, «	· ·	5.8	2.6	7.7	4.2	6.8	3.8	9.5	. <del>.</del>
SO TO C TY:T TITLE	;		11.1*	11.1	11.1	11.1	11.1	11.1	1.1	1.1
Group diff.a P=.03		15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
Analysis of variance: Fratio		1.16 significan	Df = 'antly dif	Df = 9/20 ntly different fi	= 1.16 Df = 9/ 20 f probability = 0.369 is significantly different from control at level of significance shown.	ity = $0.369$ at level of	signific	ance shown		

PATHOLOGY TABLE 7

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Appendix

	PRINTED: 04-Oct-89 Page: 2	SUB-ACUTE/	
•	Group Comparison Statistics for Absolute Organ Weights (gms) Study Number: 88008f	Report includes a'! dead animals (All subgroups) Study Start Date: 31-Jan-89	
	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF BES SLIPP PATH SFRV GP	PRESIDIO OF SAN FRANCISCO, CA 94129	

		,		Fe mal	Female Animals	ma(S	4	/ Eicher/c	(104)	
Organ: HEART	Contro	Controls from group: 10	01 :dno	Data n	omogeneous	Data nomogeneous by Bartiell's lest (11shell s 13d 155)	יייייייייייייייייייייייייייייייייייייי			
Group Control Number/group 3 Mean 82.5 Standard deviation 8.5 Group diff.a P=.05 Group diff.a P=.05	Control 3 82.5 8.5	89.3 4.0 15.4 21.0	2 88.5 2.2 15.4 21.0	3 3 87.5 3.5 15.4 21.0	93.2 7.1 15.4 21.0	84.6 9.2 9.2	6 3 88.6 11.8 15.4 21.0	7 3 90.5 12.9 15.4	8 3 91.3 13.7 15.4	9 3 87.9 9.2 15.4 21.0
Analysis of variance: F ratio = Note: a * indicates group mean is	Fratio = roup mean is		Df = antly dif	9/ 20 ferent fro	Df = 9/20 f probability = 0.944 of the ferent from control at level of	0.35 Df = 9/20 f probability = 0.944 significance shown.	signific	ance showr	÷	

1	70 m 97 m 97 m 97 m 97 m 97 m 97 m 97 m
(sd test)	8 2 8 2 12. 12. 17.
m s le Animals Data homogeneous by Bartlett's test (Fisher's Isd test)	76. 76. 10. 17.
tt's test	38. 78. 72. 17.
Animals neous by Bartlet	80. 4. 12.
Mogeneous	4 3 80. 10. 12.
Data hom	3 78. 8. 12.
np: 10	2
Controls from group: 10	80. 3. 12.
Contro	Control 3 3 80. 5.
Organ: BRAIN	Group Control Number/group Mean Standard deviation Group diff.a P=.05 Group diff.a P=.05

Analysis of variance: Fratio = 0.18 Of = 9/20 Fprobability = 0.993Note: a \* indicates group mean is significantly different from control at level of significance shown.

#### PATHOLOGY REPORT Appendix I (cont.):

PRINTED: 04-0ct-89 Page: 3	SUB-ACUTE/
Group Comparison Statistics for Absolute Organ Weights (gms) Study Number: 88008f	PRESIDIO OF SAN FRANCISCO, CA 94129 Report includes all dead animals (All subgroups) Study Start Date: 31-Jan-89 Study Start Date: 31-Jan-89
LETTERMAN ARMY INSTITUTE OF RESEARCH	PRESIDIO OF SAM FRANCISCO, CA 94129 DOG/BEAGLE

Organ: OVARIES	Contro	controls from group: 10	roup: 10		Data non-homogeneous by B	eous by I	Bartlett's	Data non-homogeneous by Bartlett's test (modified I test)	ied I test)		
Croup C	. ပ်		~	<b>.</b>	*	2	91	~	<b>6</b> 0 F	<b>→</b> ₩	
Mumber/aroun	r	٣	m	~	~	m	m ·	~ ·	ni	n 6	
Const	١.36	1.40	1.09	1.08	1.22	0.78	1.06	08.0	0.94	2.30	
Contained books	8.5	0.63	0.11	0.53	0.54	0.19	r. 15	0.35	L		
SCHOOL DEVISE OF		2 12	77	1.55	1.97	1.51	1.49	1.68	1.47	3.60	
Group diff.a P=.01		68.7	3.38	3.57	4.55	3.49	3.43	3.87	3.38	8.30	
Analysis of variance: Fratio = $1.88$ Df = $9/20$ Fprobability = $0.115$ Note: a * indicates group mean is significantly different from control at level of significance shown.	: Fratio = group mean is	1.88 signific	Df = antly di	9/ 20 fferent f	f probabil rom control	ity = 0. at level	115 of signif	icance shown	ن		

Organ: ADREMAL GLANDS		rols from	group: 10	Data	Controls from group: 10 Data homogeneous by Bartlett's test (lisher's lsd test)	by Bartle	tt's test	(lisher's	lsd test)	1
	:								•	
	70000	-	^	-	4	Ś	•	_	<b>2</b> 0	•
dronb	ים יו	- •	1 1-	~	~	~	<b>~</b> ~	<b>P</b>	~1	•
Mumber/aroun	•1	n	n	1	1	,	1	,	, ,	
	1 25	1 35	1.4.1	1.70	1.21	1.15	1.55	1.32	1.55	
	3.6			17 0		0 2 0	00 0	0.41	0.36	0.17
Standard deviation	٠.٠ د.٠	00			7.0	,			77.0	77 0
20 =0 c 99:10		97.0	95.0	97.0	97.0	97.0	0.40	9.0	9.0	
		0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
eroup airi.		i )	1							

Analysis of variance: Fratio =-1.08 Df =-9/20 F probability =0.417 Mote; a \* indicates group mean is significantly different from control at level of significance shown.

PATHOLOGY TABLE 7 (cont.)

LETTERMAN ARMY INSTITUTE OF RESEARCH	Group Comparison Statistics for Absolute Organ Weights (gms)	PRINTED: 04-Oct-89
DIV OF RES SUPP. PATH SERV GP		7 - 0 0 0 L
PRESIDIO OF SAN FRANCISCO, CA 94129	Report includes all dead animals (All subgroups)	
DOG/BEAGLE	Study Start Date: 31-Jan-89	SUB-ACUTE/

1 1 1 1 1 1	9 66. 10. 26. 35.
sd test)	8 111. 2. 26.* 35.*
male Animals Data homogeneous by Bartlett's test (Fisher's Isd test)	82. 18. 26.
tt's test (	59. 59. 35.
Animals eous by Bartle	72. 17. 17. 26.
e An nomogeneous	76. 14. 35.
emale Datahor	3 89. 28. 35.
f from group: 10	104. 104. 15. 26.*
y <sub>0</sub>	69. 8. 26.
Control	Control 3 57. 16.
Organ: SPLEEM	Group Control Number/group 3 Mean 57. Standard deviation 16. Group diff.a P=.05 Group diff.a P=.01

Analysis of variance: Fratio  $\pm$  4.25 Df  $\pm$  9/ 20 F probability  $\pm$  0.003 Mote; a  $\pm$  indicates group mean is significantly different from control at level of significance shown.

PATHOLOGY TABLE 7 (cont.)

	PRINTED: 04-0ct-89 Page: 1	SUB-ACUTE/	
Appendix t conc. :	Group Comparison Statistics for Absolute Organ Weights (gms) Study Number: 88008M	PRESIDIO OF SAN FRANCISCO, CA 94129 Report includes all dead animals (All subgroups)  Study Start Date: 07-Feb-89  Study Start Date: 07-Feb-89	
<u> </u>	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	

Organ: LIVER	Controls		from group: 10	Data	Data homogeneous by Bartlett's test (Fisher's 1sd test)	by Bartle	ett's test	(Fisher's	(sd test)	
Group Control Group 3  Number/group 3  Mean 380.8 47  Standard deviation 59.1 1  Group diff.a P=.05 Group diff.a P=.01	Control 3 380.8 59.1	473.0 473.0 17.1 140.1	2 3 523.9 65.3 140.1*	3 480.2 85.5 140.1	4 428.4 51.4 140.1	5 460.7 89.2 140.1	503.2 34.4 140.1	532.0 101.1 140.1	8 3 549.7 147.9 140.1*	9 3 466.1 91.8 140.1
Analysis of variance: f ratio = Note: a " indicates group mean is	: F ratio :		Df = cantly dif	9/ 20 Herent fr	1.14 Df = $9/20$ F probability = 0.382 significantly different from control at level of significance shown.	lity = $0.34$ at level	82 of signific	cance showr	<u>ن</u>	

rols from group: 10 Data homogeneous by Bartlett's test (Fisher's 1sd test)	1 2 3 4 5 3 4 5 5 4 5 3 4 6 5 5 6 5 9 6 6 8 9 5 4 8 6 5 5 6 2 9 6 5 8 6 5 5 6 5 9 6 5 9 6 9 6 9 6 9 6 9 6 9 6
	Group Control  Number/group  Standard deviation  Group diff.a P=.05  Group diff.a P=.05

Analysis of variance: f ratio = 1.46 of = 9/20 f probability = 0.221 Note: a \* indicates group mean is significantly different from control at level of significance shown.

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lute Organ Weights (gms) PRINTED: 04-Oct-89 008M Page: 2	Report includes all dead animals (All subgroups) Study Start Date: 07-Feb-89
Group Comparison Statistins for Absolute Organ Weights (gms) Study Number: 88008M	Report includes all dead animals (All subgroups) Study Start Date: 07-Feb-89
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE

Organ: NEART	Cont	rols from	Controls from group: 10	Data h	omogeneous	by Bartle	Data homogeneous by Bartlett's test (Fisher's Isd test)	(Fisher's	(sd test)	
Group Control 1 Group 3 3 3	Control 3	3 3	3 3	3 3 87.2	3 3 4 6 8 9 6 4	5 3 106.9	6 3 87.0	7 3 105.1	8 3 104.0	9 3
Standard deviation Group diff.a P=.05 Group diff.a P=.01	10.1	10.5 18.6 25.4	11.5 18.6 25.4	3.0 13.6 25.4	9.2 18.6 25.4	19.8 18.6 25.4	6.3 18.6 25.4	6.7 18.6 25.4	15.1 18.6 25.4	6.9 18.6 25.4

Analysis of variance: Fratio = 1.46 Df = 9/20 F probability = 0.228Note: a \* indicates group mean is significantly different from control at level of significance shown.

Analysis of variance: Fratio = 0.90 Df = 9/20 Fprobability = 0.546 Mote: a \* indicates group mean is significantly different from control at level of significance shown.

PATHOLOGY TABLE 8 (cont.)

PATHOLOGY REPORT Appendix I (cont.):

PRINTED: 04-Oct-89 Page: 3	SUB-ACUTE/	
Group Comparison Statistics for Absolute Organ Weights (9ms) Study Number: 88008M	Report includes all dead animals (All subgroups) Study Start Date: 07-feb-89	
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	

Organ: ADRENAL CLANDS		Controls from g	group: 10	Ε	Data homogeneous by Bartlett's test (Fisher's lsd test)	by Bartle	tt's test	(Fisher's	lsd test)	1 4 3 1 4 4 4 4 4	•
Group   Control   1     Group   3   3   3   3   3   3   3   4   4   4	Control 3 1.33 0.08	1.63 0.25 0.57 0.78	2 1.22 0.19 0.57	1.34 0.12 0.57	4 1.56 0.17 0.57 0.78	5 3 1.48 0.08 0.57 0.78	6 3 1.75 0.81 0.57	7 3 1.39 0.41 0.57	8 1.68 0.24 0.57	0 1.60 0.31 0.57	
Analysis of variance: F ratio $\pm$ 0.79 Df $\pm$ 9/ 20 F probability $\pm$ 0.630 Note: a * indicates group mean is significantly different from control at level of significance shown.	Fratio = roup mean is	0.79 s signific	Df = antly dif	9/ 20 Herent fr	Df = 9/20 F probability = 0.630 Itly different from control at level of	ity = $0.63$ at level o	0 f signific	ance shown			

				- e0 - XI	Male Animals	n a l s				
Organ: TESTIS	Cont	Controls from group: 10	group: 10		Data homogeneous by Bartlett's test (Fisher's Isd test)	by Bartle	et:'s test	(Fisher's	(sd test)	1
Group Control Number/group 3  Mean 18.73 Standard deviation 5.23 Group diff.a P=.05	Control 3 18.73 5.23	1 3 18.98 4.01 8.13	2 3 20.23 5.28 8.13	3 3 16.79 0.90 8.13	7.43 2.54 9.09	5 3 20.72 6.87 8.13	16.34 2.62 8.13	7 3 17.25 0.97 8.13	26.25 3.23 9.09	21.99 8.16
Group diff.a P=.01		11.13	11.13	11.13	12.45	11.13	11.13	51.11	12.43	<u> </u>

Analysis of variance: F ratio = 0.95 Df = 9/18 F probability = 0.506 Mote: a \* indicates group mean is significantly different from control at level of significance shown.

PATHOLOGY TABLE 8 (cont.)

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(cont.):
Appendix I

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Group Comparison Statistics for Absolute Organ Weights (gms)	Study Aumber: B8008M	Keport Includes Bit dead animate (Art substitute)	
LETTERMAN ARMY INSTITUTE OF RESEARCH	DIV OF RES SUPP, PATH SERV GP	PRESIDIO OF SAN FRANCISCO, CA 94129	

	Controls Control 3 93.	s from group: 10 1 2 3 3 92. 86. 36. 18.	2 2 3 3 86.	H a l e Data ho 3 3 75.	A n i m a l bmogeneous by B 4 3 62. 8 17.	by Bartle 5 3 83. 48.	t's test 6 3 64. 21.	Data homogeneous by Bartlett's test (Fisher's Isd test)  3 4 5 6 7 8 3 3 3 3 3 75. 62. 83. 64. 107. 126. 12. 17. 1. 21. 25. 47. 48. 48. 48. 48. 48.	(sd test)  8  3  126. 47.	9 3 105. 20. 48.
Group diff.a P=.01		65.	65.	65.	65.	65.	62.	. 60		6

Analysis of variance: Fratio = 1.55 (f = 9/26 Fprobability = 0.198 Note: a \* indicates group mean is significantly different from control at level of significance shown.

OF RESEARCH Group Comparison Statistics for % Organ to Brain Weight Ratio PRINTED: 04-Oct-89 V.GP	, CA 94129 Report includes all dead animals (All subgroups) Study Start Date: 31-Jan-89	
LETTERMAN ARMY INSTITUTE OF RESEARCH Gr. DIV OF RES SUPP. PATH SERV GP	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	

Organ: LiveR	Contro	Controls from group: 10	roup: 10	مه س	0	Anmats mogeneous by 8a	rtlett's t	est (modif	ied I test	(	;
Group Mumber/group Mean Standard deviation Group diff.a P=.05	Control 3 418. 30.		693. 134.	8 695. 161. 407.	4 405. 67. 183.	486. 147. 1135.	6 3 502. 37. 118.	491.	8 480. 5.	539. 140. 356.	
Group diff.a P=.01		186.	786.	938.	421.	4118.	273.	. 0 6	. 7 / 1	. 778	
Analysis of variance: Fratio = 3.56 Df = 9/19 Fprobability = 0.010 More a mindicare group mean is significantly different from control at level of significance shown.	Fratio =	3.56 signific	Df =	9/ 19 fferent f	.56 Df = 9/ 19 F probability = 0.010 nificantly different from control at level of	lity = $0.010$	) fsignific	ance shown			

Organ: KIONEY	Contr	ols from §	ontrols from group: 10	Data	homogeneous	neous by Bartle	lett's tes	Data homogeneous by Bartlett's test (Fisher's Isd test)	(sd test)	
Group Control  Number/group  Mean  Standard deviation  Group diff.a P=.05  Group diff.a P=.05	Control 3 61.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 3 72. 14. 16.	4 5 3 3 68. 63. 14. 7. 16. 16.	5 63. 7. 16.	0 M M M M M M M M M M M M M M M M M M M	61. 61. 76.	8 8 64. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	70. 70. 12. 16.

Analysis of variance: Fratio = 1.03 Df = 9/20 Fprobability = 0.453Note: a \* indicates group mean is significantly different from control at level of significance shown.

PRINTE 04-0ct-89 Page: 2	St ACUTE/	
Group Companison Statistics for X Organ to Brain Weight Ratio Study Number: 88008f	Report includes all dead animals (All subgroups) Study Start Date: 31-Jan-89	
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	

Organ: HEART	Cont	Controls from group: 10 Data homogeneous by Bartlett's test (Fisher's 1sd test)	roup: 10	Date ho	omogeneous	by Bartle	tt's test	(Fisher's	(sd test)	
Group Control Number/group 3	Control	13	2 3	3 3 112.	4 3 116.	5 3 106.	6 3 115.	7 3		9 111.
Standard deviation Group diff.a Px.05 Group diff.a Px.01	10.	23.	5. 17. 23.	13. 17. 23.	6. 17. 23.	11.	16. 17. 23.	9. 17. 23.	1. 17. 83.	11. 17. 23.

Analysis of variance: F ratio = 0.68 Df = 9/20 F probability = 0.717 Mote: a indicates group mean is significantly different from control at level of significance shown.

	•		•	т. 6	0	Animals	10 1001	(Ficher's	(sd test)	
Organ: BRAIN	Cont	Controls from group: 10	roup:		e pour promou	33 180 40				
			^			5		7	æ	٥
dno.in	201107	- ~	٠,			•		m	m	٣
	7 60	001	100			100.		100.	100.	100.
		0				0		0	.0	0.
Group diff. D P=.05	;	0.	0.	0.	0.	.0	0.	0.	0.	0
Group diff.@ P=.01		0.	0.			0.		.0	.0	5

Analysis of variance: f ratio = 0.00 Of = 9/20 f probability = 1.000Note; a \* indicates group mean is significantly different from control at level of significance shown.

LETTERMAN ARMY INSTITUTE OF RESEARCED DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	TUTE OF RESEA H SERV GP CISCO, CA 941	•	Repor	ison Stat t include Stud	Group Comparison Statistics for % Organ to Brain Weight Ratio Study Number: 88008F Report includes all dead animals (All subgroups) Study Start Date: 31-Jan-89	Organ to : 88008F nimals (A : 31-Jan-	Brain Weigh 11 subgroups 89	t Ratio		R IN TED :	PRINTED: 04-0ct-89 Page: 3 SUB-ACUTE/
Organ: OVARIES	Contro	ls from	Controls from group: 10	emal Datan	female Animals Datanon-homogene.us by Bartlett's test (modified I test)	mals usby Bar	tlett's test	(modifie	d T test)	•	
gnoug	Control	-	2		4	2	9	7	80	٥	
Musber/group	m	m	m	٣	~	٣	M	~	٣	٣	
Hear	1.7	1.8	1.4	1.4	1.6	1.0	1.4	1.1	1.2	5.9	
Standard deviation	0.7	0.8	0.2	0.5	6.0	0.3	0.1	7.0	0.2	1.6	
Group diff.a P=.05		2.7	1.8	1.8	2.8	1.9	- 8	2.1	1.8	7.7	
Group diff.a P≖.01		6.3	4.2	4.2	9.9	4.3	4.1	8.4	4.2	10.0	
Analysis of variance: Fratio = $1.78$ Df = $9/20$ F probability = $0.136$ Note: a * indicates group mean is significantly different from control at level of significance shown.	: Fratio = group mean is	1.78 signifi	Df = 9 cantly diff	7 20 erent fro	Df = 9/20 F probability = 0.136 intly different from control at level of	y = 0.136 level of	significanc	e shown.			

Organ: ADREMAL GLANDS	Con	trols from group: 10		emal Data	female Animals Data homogeneous by Bartlett's test (Fisher's Isd test)	mals by Bartlett	's test (	(Fisher's L	sd test)	
Group Control	Control		2	m	*	2	9	7	80	٥
Number/group	₽	٣	M	~	m	~	<b>~</b> 1	m	m	m
Rear	1.6	1.7	1.8	2.2	1.5	1.4	5.0	1.7	1.7	1.7
Standard deviation	 	0.2	7.0	0.5	0.3	0.3	0.5	7.0	0.5	0.1
Group diff.a P=.05		9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Group diff.a P≖.01		8.0	0.8	0.8	0.8	8.0	0.8	8.0	9.0	0.8
Analysis of variance: Fratio Note: a * indicates group mean		1.10 signific	Df = 9 antly diff	)/ 20 Ferent fr	= 1.10 Df = $9/20$ F probability = $0.403$ is significantly different from control at level of significance shown.	ty = 0.403 t level of	significe	ance shown.		

PATHOLOGY TABLE 9 (cont.)

PRINTED: 04-Oct-89 Page: 4	SUB-ACUTE/	
Group Comparison Statistics for X Organ to Brain Weight Ratio Study Number: 88008f	Report includes all dead animals (Al! subgroups) Study Start Date: 31-Jan-89	
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	

	83. 10. 34.
sd test)	8 138. 21. 34.* 46.*
Fisher's L	7 107. 14. 34.*
t's test (	77. 77. 9. 9.
by Bartlet	90. 21. 34.
Data homogeneous by Bartlett's test (Fisher's 1sd test)	26
Data ho	114. 38. 34.* 46.
roup: 10	135. 135. 19. 34.*
Controls from group: 10	87. 87. 87.
Contr	Control 3 71.
Organ: SPLEEN	Group Control  Number/group  Mean  71.  Standard deviation 18.  Group diff.a P=.05  Group diff.a P=.05

Analysis of variance: Frutio = 4.06 Df = 9/20 Fprobability = 0.004Note: a \* indicates group mean is significantly different from control at level of significance shown.

PATHOLOGY TABLE 9 (cont.)

REPORT
PATHOLOGY
(cont.):
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Appendix

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/8EAGLE	STITUTE OF RESEARC PATH SERV GP RANCISCO, CA 94129	_	oup Comp	arison Sta	Group Comparison Statistics for X Organ to Brain Weight Ratio Study Number: 88008M Report includes all dead animals (All subgroups) Study Start Date: 07-Feb-89	% Organ to ir: 88008M animals (A	Brain Wei III subgrou 89	ght Ratio		M G G G G G G G G G G G G G G G G G G G	PRINTED: 04-0ct-89 Page: 1 SUB-ACUTE/
Organ: LIVER	Contr	Controls from group: 10	lroup: 10	I	ale Animals Data homogeneous by Bartlett's test (Fisher's Isd test)	nals by Bartlet	t's test	Fisher's (	sd test)		
Cacag	Control		~	3	4	2	9	7	80	•	
dione, redeira			· •	<b>~</b>	₩	٣	٣	٣	m	~	
	451.	535.	627.	594.	510.	569.	535.	626.	.079	555.	
Collected brebasts	. 1.7	70,	47.	134.	50.	98.	. 44	51.	199.	115.	
30 - 20 - 40 TO 10	•	164	164.	164.	164.	164.	164.	164.*	164.*	164.	
Group diff.a P=.01		224.	224.	224.	224.	224.	224.	224.	224.	224.	
Analysis of variance: F ratio = 1.14 Df = $9/20$ F probability = $0.380$ Mote: a * indicates group mean is significantly different from control at level of significance shown.	f ratio =  roup mean i:	1.14 s signific	Of = cantly di	Df = 9/ 20 htly different fr	F probability = 0.380 om control at level of	ity = $0.38^{\circ}$ at level of	) significa	ance shown.			

, , , , , , , , , , , , , , , , , , ,	9 79. 14. 18.
(sd test)	85. 18. 18.
Fisher's	87. 7. 7. 18.
t's test (	6 62. 7. 18.
ale Animals Data homogeneous by Bartlett's test (Fisher's (sd test)	78. 78. 10. 18.
Anima mogeneous by	78. 78. 9. 18.
Male Dataho	3 67. 11. 18.
roup: 10	83. 13. 18.
Controls from group: 10	76. 76. 4. 18.
Contr	Control 3 70. 5.
Organ: KIDNEY	Group Control  Mumber/group  Mean  Standard deviation  Group diff.a P=.05  Group diff.a P=.01

Analysis of variance: Fratio = 1.62 Df = 9/20 F probability = 0.175 Mote: a \* indicates group mean is significantly different from control at level of significance shown.

	PRINTED: 04-Oct-89 Page: 2	SUB-ACUTE/	
Appendix 1 (conc.):	Group Comparison Statistics for X Organ to Brain Weight Ratio Study Number: 88008M	Report includes all dead animals (All subgroups) Study Start Date: 07-feb-89	
₹	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/REAGLE	

			;	M a le	Male Animals	s le m			***	
Organ: WEART	Contro	Controls from group: 10	roup: 10	Data	snoauagemeons	by Bartle	r's test	(risher's .	מת ובאו)	
Number/group Control  Number/group  Mean  Standard deviation  Group diff.a P=.05  Group diff.a P=.05	Control 3 107.	110. 8. 23.	122. 23. 23.	3 107. 6. 23.	4 106. 9. 23.	5 132. 20. 23.*	6 92. 22. 23.	7 125. 10. 23.	8 121. 23. 23. 31.	9 m 11
Analysis of variance: f ratio = Note: a * indicates group mean is	. f ratio = group mean is	2.23 signific	Df = 9 antly dif	7/ 20 ferent fro	2.23 Df = $9/20$ f probability = $0.065$ significance shown.	ity = $0.06$ at level of	signific	ance shown.		

					= - - -	a l s				
Organ: BRAIN	Control	rols from group: 10	up: 10	Data ho	mogeneous	Data homogeneous by Bartlett's test (Fisher's Isd test)	's test	(Fisher's	sd test)	· · · · · · · · · · · · · · · · · · ·
Group Number/group Mean Standard deviation Group diff.a P=.05	Control 3 100. 0.	100.00.00.00.00.00.00.00.00.00.00.00.00.	100. 0. 0.	2001 000. 00.	100.00.00.00.00.00.00.00.00.00.00.00.00.	200. 00. 00.	00. 00. 00.	100. 00. 00.	100 . 00. 00.	9 m 001 0 0 0 0
Analysis of variance: f ratio Note: a * indicates group mean	: F ratio = group mean is	0.00 significan	Df = itly dif	= $0.00$ Df = $9/20$ F probability = $1.000$ is significance shown.	probabili control a	ty = 1.000 t level of	signific	ance shown.		

PATHOLOGY TABLE 10 (cont.)

PATHOLOGY REPORT Appendix I (cont.):

SEARCH	Group Comparison Statistics for X Organ to Brain Weight Ratio	PRINTED: 04-0ct-89
DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129	Study Number: 88008M Report includes all dead animals (All subgroups) Study Start Date: 07-Feb-89	rage: 3 SUB-ACUTE/

				- 0 X	<b>¥</b> a le An a a le <b>¥</b>	s   s				
Organ: ADRENAL GLANDS	Controls	is from g	from group: 10	Data	Data homogeneous by Bartlett's test (Fisher's Isd test)	by Bartlett	stest	(Fisher's ls	sd test)	
anoly	Control	: : :	2	~	7	5	9	7	∞	٥
drois/legenM	~	~	M	M	~	m	M	•	m	~
	1.6	1.8	1.5	1.7	1.9	9.6	1.9	1.7	٠.	4.9
Standard deviation	0.1	7.0	0.1	0.2	7.0	0.1	6.0	0.5	0.3	0.3
Group diff. a P=.05		0.7	0.7	7.0	0.7	0.7	7.0	0.7	7.0	7.0
Group diff.a P=.01		6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Analysis of variance: Fratio = 0.49 Df = 9/20 F probability = 0.865	Fratio =	0.49	Df = 9	)/ 20 ferent f	F probabili	ty = 0.865	significa	Bnce shown.		

6		01	01000	Hale Pate	ale Animals nata homomonana by Rarriatr's test (Fisher's Isoltest)	als Sertie	1001	(Fisher's	(sq test)	
onorg	Control	-	2	₩	4	s	9	~	∞	۰
	~	M	M	٣	2	~	٣	~	7	m
	22.1	21.4	24.1	20.7	19.5	25.5	17.4	20.5	31.1	25.6
Standard deviation	2.0	3.9	6.4	2.2	1.2	7.8	3.0	1.9	4.7	7.7
Group diff. B P= 05	: :	8.3	8.3	8.3	9.3	8,3	8.3	8.3	9.3	8.3
Group diff.a P=.01		11.4	11.4	11.4	12.7	11.4	11.4	11.4	12.7	11.4

Analysis of variance: F ratio = 1.57 Df = 9/18 F probability = 0.199 Mote: a \* indicates group mean is significantly different from control at level of significance shown.

PATHOLOGY TABLE 10 (cont.)

PATHOLOGY TABLE 10 (cont.)

	PRINTED: 04-Oct-89 Page: 4	SUB-ACUTE/	
Appendix I (cont.): PATHOLOGY KEPOKT	Group Comparison Statistics for % Organ to Brain Weight Ratio Study Number: 88008M	Report includ	
Apper	LETTERMAN ARMY INSTITUTE OF RESEARCH GFO	94129	

	,	,	•	¥ a l e	m i u V	Male Animals	10 1001	(Fisher's	(sd test)	
Organ: SPLEEN	Control	Controls from group: 10	or :dno	Date n	omodeneous	בביייייייייייייייייייייייייייייייייייי				
Number/group Mean Standard deviation Group diff.a P=.05	up Control 3 3 4 4 9 113. 0 62.	105. 43. 64.	2 105. 31. 64.	91. 10. 84.	75. 30. 84.	5 103. 4. 87.	69. 26. 64.	7 130. 45. 64.	8 147. 60. 64.	9 123. 13. 64.
Analysis of variance: Fratio = Note: a indicates group mean i	Fratio = roup mean is	1.22 significa	Df = Antly dif	9/ 20 ferent fro	F probabili m control a	1.22 Df = $9/20$ F probability = 0.336 significance shown.	signific	cance show	ė	

REPORT
PATHOLOGY
(cont.):
Appendix I (

		Appendix	T (COUL.).	FAIRODOGI NE	NET ON T	
LETTERMAN ARMY DIV OF RES SUP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	x	Individual Anim Study Nu	Individual Animal Data Dump Table Study Number: 88008f		PRINTED: 04-Oct-89 Page: 1
PRESIDIO OF SA DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	4129	Study Start	Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: Day of death:	89A00022 15	Sex: Female Status: Final sacrifice	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Group: 1 Termin	Dose level: Terminal body weight (kms):	12.0 ML/KG/day 12.00
Date	e Day/week of Study	ck	Organ We Absolute Organ Weight (gms)	ights >> Relative X of Body Weight	Relative % of Brain Weight	Organ Status
14-Feb-89 14-Feb-89	15/3	 LIVER KIONEY	499.0	4.16	601.4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
14-Feb-89	15/3	HEART BDA-1	83.0	0.69	100.0	50.5
14-reb-89	15/3		1.30	0.011	1.56	Low
14-Feb-89 14-Feb-89	15/3 15/3	ADRENAL GLANDS SPLEEN	78.2	0.65	96.3	
Tissue	Finding, severity		es opso	Gross Free-Text Comments	9	
WHOLE BODY	NO LESIONS RECOGNIZED	COGNIZED				
Tissue	Necropsy memos		жесгорзу	Me = 0 s >>		
No necropsy memos	emos recorded on animal	nìmal				
Tissue	Histopathologic diagnoses	<pre></pre>	l o g y 0 histological	b s e r v a t i o n s comments	<b>^</b>	
LACRIMAL GLAND	;	Slight.				
LIVER	Hepatocellula Extramedullar	Hepatocellular Vacuolation, Coars Extramedullary Hematopoiesis, Mil	Coarse Type, Mild, Mult s, Mild, Multifocal.	Multifocal.		
MES. LYMPH NODE		Sinus Weutrophilia, Slight. Congestion and/or Hemorrhage of the Medulla, Mild	the Medulla, Mild.			
SKIN	Folliculitis,	Folliculitis, Subacute, Slight, F	Focal.			
SKIN, ANTEBRACH.		Inflammation, Subcutaneous, Mild, Multifocal, Chronic.	, Multifocal, Chror	iic.		

PATHOLOGY ANNEX A

Endophlebitis, Mild.

CEPHALIC VEIN

LETTERMAN ARM DIV OF RES SU	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	RCH 30	Individual Anima Study Num	Individual Animal Data Dump Table Study Number: 88008f		PRINTED: 04-Oct-89 Page: 2
PRESIDIO OF S DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	59	Study Start D	Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: 89400038 Day of death: 15	•	Sex: Female Status: Final sacrifice	Group:	1	Terminal body weight (kms):	12.0 ML/KG/day 11.00
Date	Day/week of Study	Organ Name	Organ We Absolute Organ Weight (gms)	ights >> Relative % of Body Weight	Relative % of Brain Weight	Organ Status
15-Feb-89	•	LIVER	445.5	4.05	574.9	
15-Feb-89		HEART	93.3	0.85	120.3	High
15-feb-89		BRAIN	77.5	0.70	100.0 2.68	LOW
15-Feb-89	16/3	ADRENAL GLANDS	1.22	0.011	1.58	:
		, , , , , , , , , , , , , , , , , , ,	s q c	Servetions >>>		
Tissue	Finding, severity	t y		Gross rree-lext comments		
WHOLE BODY	NO LESIONS RECOGNIZED	IGN I ZE U	N e c r o p s y	Reaos >>		
Tissue	Necropsy memos				1	
No necropsy m	No necropsy memos recorded on animal	mal				
Tissue	Histopa∶hologic	<pre>&lt;&lt; P a t h diagnoses / Speci</pre>	A B t h o l o g y O b s e r Histopa:hologic diagnoses / Special histological comments	Observations alcomments	^	
LIVER	Inflammation, Subacute,	ubacute, Mild, Focal	al	1		

PATHOLOGY ANNEX A (cont.)

Congestion and/or Memorrhage of the Medulla, Mild.

SKIN, ANTEBRACH. Inflammetion, Subcutaneous, Mild.

MES. LYMPH NODE

THYMUS

Required protocol tissue is missing.

LETTERMAN ARM DIV OF RES SUF	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	RESEARCH 3P		Individual Animal Data Dump Study Number: 88008f	al Data Dump Lable mber: 88008f		Page: 3
PRESIDIO OF SA DOG/BEAGLE	SAN FRANCISCO, CA 94129	A 94129		ا ب	Date: 31-Jan-89		SUB-ACUTE/
Animal: 89A00072 Day of death: 15	89A00072 15	Sex: Femal Status: Final	le Sacrifice	19	-	Dose level: Terminal body weight (kms):	12.0 ML/KG/dey 10.60
:	eek of	tudy Organ N		an We e Organ (gms)	ights >> Relative % of Body Weight	Relative % of Brain Weight	Organ Status
	5178	LIVER		468.8	4.42	· •	High
22-Mar-89	51/8	KIDNEY		52.1	67.0	. 55.3	
22-Mar-89	51/8	HEART		85.2	0.80	107.0	High
22-Mar-89	51/8	BRAIN		7.67	0.75	0.004	-
22-Mar-89	51/8	OVARIES	!	0.83	0.008	1.05	#07
22-Mar-89	51/8	ADRENAL	GLANDS	1.36 67.7	0.64	84.9	
Tissue			0 7 0	ss Obser Gros	vations s Free-Text Comme	>> nts	
WHOLE BODY		NO LESIONS RECOGNIZED		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
			* *	ecropsy	X 6 3 0 8 4		
Tissue	Necropsy memos	nemos					
No necropsy memos		on animal					
lissue		<pre>*&lt; Histopathologic diagnoses</pre>	Patho s/Specia	logy 0 I histological	bservations comments	^^	
PITUITARY GLAND		Cyst(s), Slight.					
·EART	Thrombosi Epicardit	Thrombosis, Valvular, Sl Epicarditis, Subacute, S	Slight, Focal. Slight, Focal	l. al.			
LIVER	Hepatocel	Hepatocellular Vacuolation, Coarse Type,	on, Coarse	Type, Mild.			
KIDNEY	Proteinac	Proteinaceous Casts, Slight, Focal	ght, Focal	. •			
ANCREAS	Acinar (E	Acinar (Exocrine) Cell A	Atrophy, Mi	Mild.			
MES. LYMPH NODE		Congestion and/or Hemorrhage of the Medulla,	hage of th	e Medulla, Slight.	•		
SKIN	Required	Required protocol tissue	.5	missing. PATHOLOGY ANNEX	A (cont.)		

REPORT
PATHOLOGY
(cont.)
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Appendix

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	NSTITUTE OF RI PATH SERV GP		Individual Animal Data Dump Table Study Number: 88008f		PRINTED: 04-Oct-89 Page: 4
PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	FRANCISCO, CA		Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: 89A00072 Sex: Femal Day of death: 15 Status: Final	A00072	Sex: Female Status: Final sacrifice	e Group: 1 Terminal body weight (kms): 10.60	Dose level: Terminal body weight (kms):	12.0 ML/KG/day 10.60
Tissue Histopathologic diagnoses	Histopathol	A Pathologic diagnoses / Special h	pathology Observations >> ;/Special histological comments		
MAMMARY GLANDS	Required pr	Required protocol tissue is missing.			

SKIN, ANTEBRACH. Inflammation, Subcutaneous, Moderate.

Endophlebitis, Moderate.

CEPHALIC VEIN

#### PATHOLOGY REPORT Appendix I (cont.):

LETTERMAN ARM DIV OF RES SU	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP	RCH	Individual Anima Study Kum	Individual Animal Data Dump Table Study Number: 88008f		PRINTED:OCT-89 Page: '
PRESIDIO OF S	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/Beagle	59	Study Start D	Study Start Date: 3'-Jan-89		SUB-ACUTE
Animal: 89 Day of death: 15	A00031	Sex: Female Status: Final sacrifice		Group: 2 Terminal	Dose level: Terminal body weight (kms):	16.0 ML/KG/day 13.25
Date	Jay/week of Study	Organ Name	Organ We Absolute Organ Weight (gms)	ights >>> Relative x of Body Weight	Relative % of Brain Weight	Organ Status
14-Feb-89	15/3	LIVER	649.3	06.4	843.4	High
14-Feb-89	15/3	KIONEY	66.7 90.3	0.50	117.3	High
14 - Feb- 89	15/3	BRAIN	77.0	0.58	100.0	3
14-Feb-89 14-Feb-89 14-Feb-89	15/3 15/3 15/3	OVAKIES ADRENAL GLANDS SPLEEN	1.06 88.5	0.008 0.008 0.64	1.38	
Tissue.	Finding, severity	<< G r ty	oss Obse Gro	Gross Free-Text Comments		
WHOLE BODY	NO LESIONS RECOGNIZED	GNIZED				
Tissue	Necropsy memos	*	жесгорзу	*		
STOMACH	GAUZE SPONGE IN STOMACH	STOMACH				
T issue	<pre> //  //  //  //  //  //  //  //  //  //</pre>	<pre></pre>	o t o g y 0 at histological	bservations comments	^	
TONS1L(S)	Crypt Abscess, Slight.	Slight.				

PATHOLOGY ANNEX A (cont.)

Congestion and/or Hemorrhage of the Medulla, Slight.

MES. LYMPH NODE MAMMARY GLANDS

LIVER

Required protocol lissue is missing.

Subcutaneous Hemorrhage, Mild. Nematodiasis, Slight, Focal.

SKIN, ANTEBRACH.

JEJUNUM

Hepstocellular Vacuolation, Coarse Type, Mild.

LETTERMAN ARMY DIV OF RES SUP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	RCH	Individual Animal Data Dump Study Number: 88008f	al Data Dump Table mber: 88008f		PRINTED: Page:	04-0ct-89 6
PRESIDIO OF SA DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	59	Study Start	Date: 31-Jan-89			SUB-ACUTE/
Animal: 89A0006 Day of death: 15	A00063	Sex: Female Status: Final sacrifice	• • • • • • • • • • • • • • • • • • •	Group: 2 Terminal body	Dose level:   body weight (kms):	16.0 9.85	ML/KG/day
Date	of St	<pre>control control c</pre>	, _ 0	ights > Relative X Body Weigh	ative ain We	Organ Status	
			y y 27	£ 7 7	586.1		
21-Mar-89	8/06	K I O N F Y		0.60	79.2	High	
21-Har-89	50/8	HEART	89.2	0.91	119.8	High	
21-Mar-89	50/8	BRAIN	74.5	0.76	100.0		
21-Mar-89	50/8		1.21	0.012	1.63	L 0 I	
21-Har-89	50/8	ADRENAL GLANDS	1.66	0.017	2.23		
21-Mar-89	50/8	SPLEEN	103.5	1.05	138.9		
Tissue	Finding, severity		oss Obse	Gross Free-Text Comments	S	1	
WHOLE BODY	NO LESIONS RECOGNIZED	GNIZED					
Tissue	Recropsy Benos	*	Necropsy	Te Bos			
							•
No necropsy memos	mos recorded on anima	mal					
Tissue	** Histopathologic diagnoses	Pat /Spe	l o g y 0 histological	bservations comments	^	1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TONSIL(S)	Required protocol tissue	of tissue is missing	ing.				
LUNGS	Granutoma, Mild, Multifoc	, Multifocal.					
LIVER	Hepatocellular Vacuolation,		Coarse Type, Mild.				
KIDNEY	Proteinaceous Casts, Slig	asts, Slight, Multifoca <sup>1</sup>	tifoca¹.				
ADRENAL GLANDS	. Vacuolar Change, Cortical		Cells, Slight.				
MES. LYMPH NODE	lE Congestion and/or Hemorrh	age of	the Medulla, Slight.				
DIAPHRAGM	Required protocol tissue	ol tissue is missing	ing.				

#### PATHOLOGY ANNEX A (cont.)

Appendix I (cont.): PATHOLOGY REPORT

DIV OF RES SUPP, PATH SERV GP	LETTERHAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP		Individual Animal Data Dump Table Study Number: 88008F		PPINTED: 04-Oct-89 Page: 7
DOG/BEAGLE	PRESIDIO OF SAN TRANC SCO, CA 94:29 DOG/BEAGLE		Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: 89A000.3 Day of death: 15	Animal: 89A000u3 Sex: Femal	. 40	Group: 2 Dose level: 16.0 ML/KG/day sacrifice Terminal body weight (kms): 9.85	Dose level: reight (kms):	16.0 ML/KG/dmy 9.85
i ssue	Tissue Histopathologic diagnoses	<pre>&lt;&lt; P a t h o l o g y 0 b s e r diagnoses / Special histological comments.</pre>	Pathology Observations >> ./Special histological comments		
SKIN ANTERRACH, Subcutaneous Hemorrhage.	Subcutaneous Hemo	orrhage. Moderate.			

			11.	)				
LETTERMAN ARM' DIV OF RES SUI	LETTERMAN ARMY INSTITUTE OF RESEARC DIV OF RES SUPP, PATH SERV GP	: RESEAR GP	HO.		Individual Anim Study Nu	Individual Animal Data Oump Table Study Number: 88008F		PRINTED: 04-Oct-89 Page: 8
PRESIDIO OF SA	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	CA 9412	6.		Study Start Date:	Date: 31-Jan-89		SUB-ACUTE/
Animal: Day of death:	89A00066	Stat	Sex: Femal Status: Final	male nal sacrifice		Group: 2	Dose level:   body weight (kms):	16.0 ML/KG/day 10.90
Date	DBY/Week of St	Study Or	 gan		Organ We Absolute Organ Weight (gms)	e i g h t s >>> Reletive X of Body Weight	Relative X of Brain Weight	Organ Status
08.7.43.00	5178	:	LIVER		5.99.2	79.7	6.9.8	High
22-Mer-89	51/8		KIDNEY	<b>&gt;</b> -	55.5	0.51	70.8	
22-Mer-89	51/8		HEARI		86.1	0.70	3.00	H190
22-Mer-89	51/8		BRAIN		78.4	27.0	1 20	3
22-Mer-89	51/8		OVARIE	s.		\$00.0 710.0	1.27	T.
22-MET-89	51/8		SPLEEN	אר פראשטא א	118.6	1.09	151.3	
Tissue	Finding, severity	severit	<u>&gt;</u>	. 9 · ·	9 S Q O S S O	ervations >> Gross Free-Text Comments	v	
WHOLE BODY	NO LESIONS RECOGNIZED	VS RECO	3N1 2E D	1				
Tissue	Necropsy memos	memos		Ÿ	* e c r o p s y	A A 90 E W X		
No necropsy memo	No necropsy memos recorded on animal	on anif	nal					
Tissue	Histopathologic diagnoses	nologíc	>> diagno:	~ `	logy 0 Ihistological	b servations comments	^	
LIVER	Hepatocellular Vacuclation		/acucla	Repatocellular Vacuciation, Coarse Type,	se Type, Mild.			
PANCREAS	Aciner (E	Exocrine	e) Cell	Acinar (Exocrine) Cell Atrophy, Slight	Stight.			
ADREMAL GLANDS		tion, Su	ubacute	Inflammation, Subacute, Mild, Multifocal	ltifocal.			
MAMMARY GLANDS	is Required protocol tissue	protoce	ol tissi	ue is missing.	ing.			

PATHOLOGY ANNEX A (cont.)

LETTERMAN ARMY DIV OF RES SUP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	H D	Individual Animal Data Dump Study Number: 88008F	at Data Dump Table nber: 88008f		PRINTED: 04-Oct-89 Page: 9
PRESIDIO OF SA DOG/PEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/PEAGLE	62	Study Start D	Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: 89 Day of death: 15	A00025 Sta	Fe F	group:	3	Dose level: Terminal body weight (kms):	20.0 ML/KG/day 10.05
Date	Day/week of S	<pre>&lt;&lt; Organ Wame</pre>	Organ We Absolute Organ Weight (9ms)	ights >> Relative % of Body Weight	Relative % of Brain Weight	Organ Status
14-Feb-89	15/3	LIVER	522.9	5.20	648.3	High
14 - Feb - 89	15/3	KIDNEY	2.65	67.0	61.6	
14.feb-89	15/3	HEART	83.6	0.83	103.6	High
14-Feb-89	15/3	BRAIN	80.7	0.80	1 51	3
14-Feb-89	15/3		27.1	0.012	1.31	<b>\$</b>
14. Feb-89 14. Feb-89	15/3 15/3	ADRENAL GLANDS SPLEEN	57.2	0.57	6.07	
Tissue	Finding, severity	,	es ops so	Gross Free-Text Comments	S	
WHOLE BODY	NO LESIONS RECOGNIZED	GNIZED				
		š	Necropsy	Kemos >>		
Tissue	Necropsy memos					
No necropsy memos		na i				
Tissue	4:stopathologic diagnoses	~ `	Special histological cor	b s e r v a t i o n s comments	^	
LUNGS	Inflammation, Interstitial	nterstitial, Subacute,	ute, Slight, Focal			
LIVER	Hepatocellular Vacuolation,		Coarse Type, Moderate.			
SKIN	Ectasia, Apocrine Glands,	ne Glands, Moderate	ċ			
MAMMARY GLANDS	S Required protocol tissue	of tissue is missing	ng.			
SKIN, ANTEBRACH.	CH. Subcutaneous Hemorrhage,	morrhage, Mild.				

LETTERMAN ARMY DIV OF RES SUP	DIV OF RES SUPP, PATH SERV GP	ARCH	Individual Animal Data Dump Study Number: 88008F	al Data Dump Table mber: 88008f		PRINTED: Page:	04-0ct-89 10
PRESIDIO OF SA DOG/BEAGLE	N FRANCISCO, CA 94		Study Start [	Start Date: 31-Jan-89			SUB-ACUTE/
·	89A00033 15 St		t t t t t t t t t t t t t t t t t t t		Dose level: Terminal body weight (kms):	12	20.0 ML/KG/day
Date	Day/week of Study	Organ Na	Organ We Absolute Organ Weight (gms)	ight Relati Body	Relative % of Brain Weight	Organ Status	
15-Feb-89	16/3		479.6	3.88	562.8	•	
15-Feb-89	16/3	KIDNEY	56.6	0.46	7.99	1	
15-Feb-89	16/3	- X	90.4 85.2	67.0	100.	76 X	
15-6-b-80	16/3	DVARIES	1.21	0.010	1.42	30	
15-Feb-89	16/3	ADRENAL GLANDS	1.37	0.011	1.61	i )	
15-Feb-89	16/3	SPLEEN	111.1	06.0	130.4		
Tissue	Finding, severity		s q 0	Gross free-Text Comments			
LUNGS	CONSOLIDATION, Mild	Mild	(B)	AL POR	ON RIGHT AND LEFT	SIDES	
		¥	Necropsy	Memos >>			
Tissue							, , , , , , , , , , , , , , , , , , , ,
STOMACH	GAUZE SPONGE IN STOMACH	N STOMACH					
	<< Histopathologic diagnose	<< Patho c diagnoses / Special	t o g y 0 histological	bservations comments	^		
PITUITARY GLAND	,						
THYROID GLAND	Cyst, Ciliated or Non-Ci	or Non-Ciliated, Slight	Slight.				
LUNGS	Inflammation,	Interstitial, Suba	Inflammation, Interstitial, Subacute, Mild, Multifocal	. 18.			
LIVER	Hepatocellular	Hepatocellular Vacuolation, Coarse Type, Mild	se Type, Mild.				
KIDNEY	Nephrocalcinosis, Slight	is, Stight.					
ADRENAL GLANDS	Vacuolar Change, Cortical		Cells, Mild, Multifocal.				

LETTERMAN ARMY INSTITUTE OF REDIV OF RES SUPP, PATH SERV GP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	Individual Animal Data Dump Table Study Number: 88008f		PRINTED: 04-0ct-89 Page: 11
PRESIDIO OF SAN F DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: 89A00033	St	1	Dose level: Terminal body weight (kms):	20.0 ML/KG/day 12.35
Tissue	<pre>*</pre>	Pathology Observations >> s/Special histological comments		
MES. LYMPH NODE	Congestion and/or Hemorrhage of the Medulla, Slight.	e Medulla, Slight.		; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
MAMMARY GLANDS	Required protocol tissue is missing.	· o		
SKIN, ANTEBRACH.	Inflammation, Subcutaneous, Marked. Subcutaneous Hemorrhage, Marked.			

Endophlebitis, Slight.

CEPHALIC VEIN

		Appendix	1 (cont.):	FAIROLOGI NEFON	ONI	
LETTERMAN ARMI DIV OF RES SUF	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	IRCH.	Individual Animal Data Dump Study Number: 88008F	al Data Dump Table mber: 88008f		PRINTED: 04-0ct-89 Page: 12
PRESIDIO OF SA DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	59	Study Start [	Study Start Date: 31-Jan-89		
Animal: 89A00064 Day of death: 15		Sex: Female Status: Final sacrifice	,		Dose level: Terminal body weight (kms):	20.0 ML/KG/day 11.20
Date	of Stu	dy Organ Name	9 n e 0 e 0	ights Relativ Body W	· >	Organ Status
0	8705		607.3	5.42	. 00	High
21-Mar-89	50/8	KIDNEY	8.09	0.54	87.6	
21-Mar-89	50/8	HEART	88.6	0.79	127.5	rigi. H
21-Mar-89	50/8	BRAIN	69.5	0.62	0.001	3
21-Mar-89	50/8		0.82	0.007	2.26	
21-Mar-89 21-Mar-89	50/8	ADKENAL GLANDS SPLEEN	97.5	0.87	140.4	
Tissue	finding, severity	9 >>	oss obse	Gross Free-Text Comments	8	
WHOLE BODY	NO LESIONS RECOGNIZED	JGN I ZED				
		¥	Necropsy	Menos >>		
Tissue		1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
No necropsy memo	No necropsy memos recorded on animal	imal				
Tissue		ath /Speci	togy 0 thistological	b servations comments	^	
TONSIL(S)	Required protocol tissue	is missi	. Bu			
LACRIMAL GLAND	D Duct Ectasia, Slight.	Slight.				
ESOPHAGUS	Inflammation of	Inflammation of Submucosat Glands,	, Acute, Mild.			
LIVER	Hepatocellular Vacuolation, Extramedullary Hematopoiesi		Coarse Type, Moderate. ;, Slight.			
THYMUS	Ultimobranchial	Ultimobranchial Cyst, Ciliated or Non-Ciliated, Slight.	Non-Ciliated, Sli	ght.		
MES. LYMPH NODE	DE Congestion and/or Hemorrhage		of the Medulla, Mild.			
DIAPHRAGM	Required protocol tissue	.e	PATHOLOGY ANNEX	A (cont.)		

LETTERMAN ARMY INSTITUTE OF RIDIN OF RES SUPP, PATH SERV GP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	Individual Animal Data Dump Table Study Number: 88008f	ر <b>د</b>	PRINTED: 04-0ct-89 Page: 13
PRESIDIO OF SAN F DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: 89A00064 Day of death: 15	Sex: Femal	e Group: 3	Dose level: Terminal body weight (kms):	20.0 ML/KG/dey 11.20
Tissue	Histopathologic diagnoses	Pathols/Special	^^ S	
SKIN	Folliculitis, Subacute,			
MAMMARY GLANDS	Required protocol tissue is missing.	ie is missing.		
STOMACH	Lymphocyte Aggregates in	n Submucosa, Slight.		
SKIN, ANTEBRACH.	Required protocol tissue	ie is missing.		

Required protocol tissue is missing.

CEPHALIC VEIN

#### PATHOLOGY REPORT Appendix I (cont.):

DIV OF RES SUF	DIV OF RES SUPP, PATH SERV GP	DIV OF RES SUPP, PATH SERV GP	Study Nu	Study Number: 88008F		Page: 14	<b>.</b>
PRESIDIO OF SA DOG/BEAGLE	AN FRANCISCO, CA 94	67	Study Start	Study Start Date: 31-Jan-89		- 8NS	SUB-ACUTE/
Animal: 89, Day of death: 15	A00020	Sex: Female Status: Final sacrifice		Group: 4 Terminal	Dose level: Terminal body weight (kms):	12.0 ML/KG/day 10.15	/day
Date	Day/week of Study	Organ Name	Organ Websolute Organ Weight (gms)	ights >>> Relative % of Body Weight	Relative % of Brain Height	Organ Status	
14-Feb-89	15/3	LIVER	310.7	3.06	442.7	Low	
14-Feb-89	15/3	KIONEY	58.3	0.57	85.1	H 197	
14 - Feb - 89	15/3	S A I N	70.2	0.69	100.0	•	
14-Feb-89	15/3	OVARIES	1.80	0.018	2.56	LOW	
14-Feb-89	15/3	ADRENAL GLANDS	1.26	0.012	1.80		
14-Feb-89	15/3	SPLEEN	85.8	0.85			
•		, 6 r	oss Obse	Observations >>>			
- 18SUe	Finding, severicy	· · · · · · · · · · · · · · · · · · ·		יייייייייייייייייייייייייייייייייייייי	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		:
LYMPH NODES	HEMORRHAGE(S), MILD	Mild	ME.	MESENTERIC AND PANCREATIC NODES	IC NODES		

Aistopathologic diagnoses / Special histological comments Hepatocellular Vacuolation, Coarse Type, Mild. Extramedullary Hematopoiesis, Slight, Multifocal. Crypt Abscess, Slight, Multifocal. TOWS IL(S) Tissue LIVER

No necropsy memos recorded on animal

..............

Necropsy memos

۸

Ultimobranchial Cyst, Ciliated or Non-Ciliated, Slight.

THYMUS

Congestion and/or Hemorrhage of the Medulla, Moderate. /Hemorrhage in the pancreatic lymph node is similar to that in the mesenteric lymph node. MES. LYMPH NODE

Required protocol tissue is missing. MAMMARY GLANDS Granuloma, Submucosal, Foreign-Body, Slight, Focal.

COLON

(cont.) PATHOLOGY ANNEX A

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO CA 94.129	ASTITUTE OF F PATH SERV GP		individual Animal Data Dump Table Study Number: 88008F	ble		PRINTED: 04-( Page: 15	PRINTED: 04-0ct-89 Page: 15
DOG/BEAGLE			Study Start Date: 31-Jan-89				SUB-ACUTE/
Animal: 89A00020 Sex: Fem Day of death: 15 Status: Fin	100020	ale alsa	Group: 4	Dose level: Terminal body weight (kms):	Dose level: weight (kms):	12.0 H	12.0 ML/KG/day
Tissue Histopathologic diagnos	Histopathol	A stopathologic diagnoses / Special histological comments	Pathology Observations >> es/Special histological comments	۸ ۵			
SKIN, ANTEBRACH.		Subcutaneous Remorrhage, Mild.					

#### PATHOLOGY REPORT Appendix I (cont.):

LETTERMAN ARMY DIV OF RES SUPP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	EARCH	Individual Anima Study Nun	Individual Animal Data Dump Table Study Number: 88008F		PRINTED: 04-Oct-89 Page: 16
PRESIDIO OF SAN	W FRANCISCO, CA 94	129	Study Start C	Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: 89A00039 Day of death: 15	A00039	Sex: Female Status: Final sacrifice	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Group: 4 Terminal	Dose level: Terminal body weight (kms):	12.0 ML/KG/dey 10.30
Dote	Day/week of Study	<<	Organ We Absolute Organ Weight (gms)	ights >> Relative % of Body Weight	Relative & of Brain Weight	Organ Status
15-Feb-89	16/3	LIVER	265.4	2.58	327.0	LOW
15-Feb-89 15-Feb-89	16/3 16/3	KIDNEY HEART	93.0	**************************************	114.6	High
15-Feb-89 15-Feb-89	16/3 16/3		1.13	0.011	1.39	LON
15-Feb-89 15-Feb-89	16/3 16/3	ADRENAL GLANDS SPLEEN	1.29	0.58	74.2	
Tissue	Finding, severity	< 6 r	oss Obse Gro	Gross Free-Text Comments		
WHOLE BODY	NO LESIONS RECOGNIZED	COGNIZED				
Tissue	Necropsy memos	<b>&gt;</b>	месгорзу	Z 6 3 0 8 >>		
No necropsy mer	No necropsy memos recorded on animal	nimal				
Tissue	Histopathologic diagnoses	<pre></pre>	Pathology Obs	Observations al comments	^	
PITUITARY GLAND	D Cyst(s), Slight.	H t .				

A (cont.) PATHOLOGY ANNEX

Heparocellular Vacuolation, Coarse Type, Mild. Pigment-Laden Macrophages, Predominantly Periportal, Mild. /The pigment is presumably bile pigment, based on color and location.

Atrophy, Acinar, Slight, Focal. Acinar Atrophy, Slight, Focal.

LACRIMAL GLAND

LIVER

SALIVARY GLAND

Requirec protocol tissue is missing.

MAMMARY GLANDS

CEPHALIC VEIN

Endophlebitis, Mild.

		ď	Appendix	1 (cont.):	PATHOLOGI KE	REFORE	
LETTERMAN ARM) DIV OF RES SUF	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	I	ı •	Individual Anir Study No	Individual Animal Data Dump Table Study Number: 88008f		PRINTED: 04-Oct-89 Page: 17
PRESIDIO OF SA	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	A 94129		Study Start	Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: 89 Day of death: 15	Animal: 89A00071 Sex: Femal of death: 15 Status: Final	Sex: Femal	Female Final sacrifice		Group: 4 Termin	Dose level: Terminal body weight (kms):	12.0 ML/KG/day 11.40
Date	;	•		Organ Weight (gms)	e i g h t s >> Relative % of Body Weight	Relative % of Brain Weight	Organ Status
00.101.00	51/8	11VFR	1 1 VFR	398.8	3.50	444.6	
22-Mar-89	51/8	KID	KIDNEY	57.7	0.51	64.3	
22-Mar-89	51/8	HEART	RT	100.4	0.88	111.9	Heigh
22-Mar-89	51/8	BRAIN	<u>z</u>	89.7	0.79	0.001	2
22-Mar-89	51/8	<b>V</b> 0			0.000	00.0	
22-Mar-89	51/8	ADR	ADRENAL GLANDS		0.009	٠. ا د د د د د د د د د د د د د د د د د د د	
22-MBr-89	51/8	SPL	SPLEEN	82.5	0.72	9.54	
Tissue	Finding, severity	everity	• •	oss Obs	ervations >>> Gross Free-Text Comments	>>> nts	
WHOLE BODY	NO LESIONS	NO LESIONS RECOGNIZED	Q				
			*	Necropsy	# e # 0 S >>		
Tissue	Necropsy memos	етоѕ					
No necropsy m	No necropsy memos recorded on animal	n animal					
Tissue		< <pre>&lt;</pre> Histopathologic diagnoses	۳ \	Special histological c	b s e r v a t i o n s comments	^	
SALIVARY GLAND		Duct Ectasia, Slight.					
LACRIMAL GLAND		Duct Ectasia, Slight.	•				
PANCREAS	Acinar (Ex	ocrine) Ce	il Atrophy,	Acinar (Exocrine) Cell Atrophy, Slight, Multifocal	•		
HES. LYMPH NODE		Congestion and/or Hemorrh	morrhage of	the Medulla, Slight	<i>:</i>		
SKIN	folliculit	is, Subacu	Folliculitis, Subacute, Slight, Focal.	Focal.			

PATHOLOGY ANNEX A (cont.)

Required protocol tissue is missing.

MAMMARY GLANDS

SKIN, ANTEBRACH. Inflammation, Subcutaneous, Mild.

REPORT
PATHOLOGY
cont.):
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LETTERMAN ARMY INSTITUTE OF REDIVE OF RES SUPP, PATH SERV GP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP		Individual Animal Data Dump Table Study Number: 88008f	PRINTED: 04-0ct-89 Page: 18	-89
PRESIDIO OF SAN F DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE		Study Start Date: 31-Jan-89	SUB-ACUTE/	UTE/
Animal: 89A00071 Day of death: 15	(00071	Sex: Female Status: Final sacrifice	e Group: 4 Dose level: 12.0 ML/KG/day sacrifice Terminal body weight (kms): 11.40	Dose level: 12.0 ML/KG/day iight (kms): 11.40	<u> </u>
	>>	<pre></pre>	pathology Observations >>		
Tissue	Histopathologic diagnoses	Histopathologic diagnoses / Special histological comments	/ Special histological comments		:
CEPHALIC VEIN	Endophlebitis, Mild, Focal	lild, Focal.			

LETTERMAN ARMY	LETTERMAN ARMY INSTITUTE OF RESEARCH	RCH	Individual Animal Data Dump Study Number: 88008F	il Data Dump Table nber: 88008f		PRINTED: 04-Oct-89 Page: 19
PRESIDIO OF SA DOG/BEAGLE	SC		Study Start D	Start Date: 31-Jan-89		SUB-ACUTE/
	89A00027 15	Female Final sacri	Group:	5 Terminal	Dose level: body weight (kms):	16.0 ML/KG/day 10.10
0 0 0 0	of Stu	. 60	O r g Absolut Weight	ights >>> Relative X of Body Weight	Relative % of Brain Weight	Organ Status
14-Feb-89	15/3	:	7	24.43	589.6	High
14-Feb-89	15/3	KIDNEY	50.6 79.5	0.50	104.8	High
14-Feb-89	15/3	BRAIN	75.9	0.75	100.0	
14-Feb-89	15/3		0.89	600.0	1.17	LOW
14-Feb-89 14-Feb-89	15/3 15/3	ADRENAL GLANDS SPLEEN	1.32 65.9	0.013 0.65	1.74 86.8	
Tissue	Finding, severity		oss Obser Gros	rvations >> ss Free-Text Comments		
WHOLE BODY	NO LESIONS RECOGNIZED	GNIZED				
Tissue			Kecropsy	X 6 3 0 8 >>		
ILEUM	CLOTH BANDAGE MATERIAL AT		ILEO-CECO-COLIC JUNCTION			
		pat /Spe	ogy 0 histological	ervations ments	<b>^</b>	
LACRIMAL GLAND	Required protocol tissue	ol tissue is missing.	. 6u			
AORTA	Required protocol tissue	ol tissue is missing	ng.			
LIVER	Hepatocellular Vacuolation, Co Extramedullary Hematopoiesis, Thrombosis, Portal Vein, Mild.		Coarse Type, Mild. s, Slight, Multifocal. d.			
MAMMARY GLANDS	Required protocol tissue	ol tissue is missing	ng.			
PARATHYROID	Ultimobranchial Cyst, Cil	iated	or Non-Ciliated, Mild			

REPORT
PATHOLOGY
(cont.):
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Appendix

LETTERMAN ARMY INSTITUTE OF RE DIV OF RES SUPP, PATH SERV GP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	Indi	Individual Animal Data Dump Table Study Number: 88008F	ble	PRINTED: 04-0ct-89 Page: 20
PRESIDIO OF SAN F DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	6	Study Start Date: 31-Jan-89	Study Start Date: 31-Jan-89	SUB-ACUTE/
Animal: 89A00027 Day of death: 15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· 01 ·	Group: 5	Group: 5 Terminal body weight (kms): 10.16.	16.0 ML/KG/day 10.16
Tissue	<< P Histopathologic diagnoses		athology Observations >>/	athology Observations >>/ Special histological comments	
CEPHALIC VEIN	Endophlebitis, Mild, Focal	d, Focal.			

LETTERMAN ARMI	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERY GP	жон (	Individual Animal Data Dump Study Number: 88008f	al Data Dump Table nber: 88008f		PRINTED: 04-Oct-89 Page: 21
PRESIDIO OF SA DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle		Study Start [	Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: 80 Day of death: 15	A00065	Sex: Female Status: Final sacrific	·	Group: 5 Terminal	Dose level: body weight (kms):	16.0 ML/KG/day 10.80
Date	Day/week of Study	X alse	Organ We	ights >>> Relative x of Body Weight	Relative X of Brain Weight	Organ Status
21-Mar-39	50/8	7 L 1 L 2 L 2 L 2 L 2 L 2 L 2 L 2 L 2 L 2	0 %		7 99	Not taken
21-Mar-89	50/8	HEART	95.2	0.88	117.3	нідћ
21-Mar-39	50/8	BRAIN	81.1	0.75	100.0	30
21-MBF-89 21-MBF-89 21-MBF-89	50/08 50/8 50/8	DVARIES ADREHAL GLANDS SPLEFN	1.20 90.5	0.011	111.6	
Tissue	Finding, severity	ty	s q O s s	Gross free-Text Comments		
WHOLE BODY	NO LESIONS RECOGNIZED	)GNI ZED				
Tissue		*	ecropsy	× 0 E U		
No necropsy memos	emos recorded on animal	mal				
		<pre></pre>	l o g y 0 histological	bservations comments	<b>^</b>	
LIVER	Hepatocellular Vacuoliti	Hepatocellular Vacuolition, Coarse Type, Slight	Type, Slight.			
THYMUS	Ultimobranchial	Ultimobranchial Cyst, Ciliated or Non-Ciliated, Slight.	Non-Ciliated, Slig	ght.		
MES. LYMPH NODE		Congestion and/or Hemorrhage of the Medulla, Slight.	e Medulla, Slight			
MAMMARY GLANDS	Required protocol tissue	ol tissue is missing	. 61			

PATHOLOGY ANNEX A (cont.)

Required protocol tissue is missing.

Inflammation, Subcutaneous, Mild. Subcutaneous Hemorrhage, Moderate. Follicutitis, Subacute, Mild.

SKIN, ANTEBRACH.

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REPORT
PATHOLOGY
(cont.)
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DIV OF RES SUPP, PATH SERV GP	DIV OF RES SUPP, PATH SERV GP		Individual Animal Cata Dump Table Study Number: 88008F		PRINTED: 04-0ct-89 Page: 22
PRESIDIO OF SAN P DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE		Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: 89A0065 Day of death: 15	Animal: 89A00065 Sex: Fema )ay of death: 15 Status: Fina	le   sacrifice	Group: 5 Terminal body weight (kms): 10.80	Dose (eve(: Terminal body weight (kms):	16.0 ML/KG/day 10.80
Tissue CEPHALIC VEIN	Tissue Histopathologic diagnose	* A a t h o l o g y O b s e r v Histopathologic diagnoses / Special histological comments Endophlebitis, Mild.	Pathology Observations >> s/Special histological comments		

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LETTERMAN ARM DIV OF RES SUI	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	RESEARCH P	Individual Animal Data Dump Study Number: 88008f	mal Data Dump Table umber: 88008f		PRINTED: 04- Page: 23	04-0ct-89 23
PRESIDIO OF SADOG/BEAGLE	AN FRANCISCO, C	A 94129	Study Start	Study Start Date: 31-Jan-89		8N8	SUB-ACUTE/
Animal: Day of death:	89A00069	. •	ice	Group: 5 Termin	Dose level: Terminal body weight (kms):	16.0 ML/KG/day 9.70	6/day
Date	Jay/week of	÷	an W e Organ (gms)	e i g h t s >> Relative % of Body Weight	Relative % of Brain Weight	Organ Status	· · · · · · · ·
22-Mar-89 22-Mar-89	51/8		318.0	3.28	382	H LON	
22-MBF-89 22-MBF-89 22-MBF-89 22-MBF-89 22-MBF-89		HEAKI BRAIN OVARIES ADRENAL GLANDS SPLEEN		0.86 0.006 0.010 0.60	100.9 0.68 1.12 70.1	3 3 5 0	
Tissue	Finding, severity		s q O	Gross Free-Text Comments	2		
WHOLE BCDY		2£0	· Necropsy	*			
Tissue	Necropsy memos	remos in animal					,
Tissue	HIStopatho	Histopathologic diagnoses / Special histologi	<u> </u>	bservations comments	•		
KIDNEY		Inflammation, Interstitial, S	Inflammation, Interstitial, Subacute, Slight, Focal				
PANCREAS	Acinar (Ex	ocrine) Cell Atroph	Acinar (Exocrine) Cell Atrophy, Hild, Multifocal.				
MES. LYMPH NODE		Congestion and/or Remorrhage	ge of the Medulla, Slight	<b>t</b> .			
SKIN, ANTEBRACH.		Inflammation, Subcutaneous, Slight Subcutaneous Hemorrhage, Mild.	stight. 1				
CEPHALIC VEIN		Endophlebitis, Slight.					

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LETTERMAN ARN' DIV OF RES SUI	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPF, PATH SERV GP	F RESEARCH GP		Individual Anim Study Nu	Individual Animal Data Dump Table Study Number: 88008f		PRINIED: U4-Oct-89 Page: 24
PRESIDIO OF SI DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	CA 94129		Study Start	Study Start Date: 31-Jan-89	,	SUB-ACUTE/
Animal: Day of death:	89A00029 15	Sex Status	Sex: Female Status: Final sacrifice	· · · · · · · · · · · · · · · · · · ·	Group: 6 Terminal body	Dose level: body weight (kms):	20.0 ML/KG/day 12.50
Date	Day/week of Study		organ Name	<ul><li>C r g a n W e</li><li>Absolute Organ</li><li>Weignt (gms)</li></ul>	ights >> Relative X of Body Weight	Relative % of Brain Weight	Organ Status
14-Feb-89	15/3		 L1VER	397.7	3.18	525.3	Low
14-feb-89	15/3	* 1	K I DNEY Hfar I	62.8	0.50	132.9	High
14-Feb-89	15/3	: co	BRAIN	75.7	0.61	100.0	
14-Feb-89	15/3	0 <	OVARIES ADRENAL GLANDS		0.009 0.012	1.92	LOW
14-Feb-89	15/3	S	SPLEEN	8.79	0.52	65.6	
Tissue	finding,	Finding, severity	9	es observed on seconds	ervations >> Gross Free-Text Comments		
TONS1L(S)	FOREIGN	FOREIGN MATERIAL IN CRYPT	IN CRYPT, Mild		BILATERAL	1	
Tissue	Necropsy memos	Remos	*	N есгоря у	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
No necropsy memo	No necropsy memos recorded on animal	on animal	1	1			
Tissue	Histopat	Histopathologic diagnoses	<u> </u>	o t o g y 0 isl histological	bservations comments		
LACRIMAL GLAND		Required protocol tissue	tissue is missing	sing.			
LIVER	Hepatoce	Ilular Vac	uolation, Coa	Hepatocellular Vacuolation, Coarse Type, Mild.			
THYMUS	Ultimobr	anchial Cy	st, Ciliated	Ultimobranchial Cyst, Ciliated or Non-Ciliated, Slight.	ght.		

PATHOLOGY ANNEX A (cont.)

Ultimobranchial Cyst, Ciliated or Non-Ciliated, Mild.

Congestion and/or Hemorrhage of the Medulla, Slight.

Required protocol tissue is missing.

Inflammation, Subcutaneous, Mild.

SKIN, ANTEBRACH.

PARATHYROID

MES. LYMPH NODE MAMMARY GLANDS

LETTERMAN ARMY IN	LETTERMAN ARMY INSTITUTE OF RESEARCH	Individu	Individual Animal Data Dump Table	l e	PRINTED: 04-0ct-89
DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA	DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO. CA 94129		Study Number: 88008F		Page: 25
DOG/BEAGLE	•	Study	Study Start Date: 31-Jan-89		SUB-ACUTE/
Animat: 89A00029 Day of death: 15	•	Sex: Female Status: Final sacrifice	Group: 6 Te	le Group: 6 Terminal body weight (kms):	20.0 ML/KG/day 12.50
Tissue	// Tissue Histopathologic diagnose		Pathology Observations >>> / Special histological comments	Pathology Observations >> es/Special histological comments	• • • • • • • • • • • • • • • • • • •
CEPHALIC VEIN	Endophlebitis, Moderate.				1

Congestion and/or Hemorrhage of the Medulla, Mild.

Required protocol tissue is missing.

Inflammation, Subcutaneous, Mild. Subcutaneous Hemorrhage, Moderate.

SKIN, ANTEBRACH.

MES. LYMPH NODE HAMMARY GLANDS

L I VER PANCREAS

Hepatocellular Vacuolation, Coarse Type, Mild.

Required protocol tissue is missing.

BONE MARROW

Acinar (Exocrine) Cell Atrophy, Mild.

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARM	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP	RCH	Individual Anim Study Nu	Individual Animat Data Dump Table Study Number: 88008f		PRINTED: 04-Oct-89 Page: 26
PRESIDIO OF SV DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	59	Study Start	Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: Day of death:	89A00041	Sex: Female Status: Final sacrifice		Group: 6 Termin	Dose level: Terminal body weight (kms):	20.0 ML/KG/day 10.80
Date	Day/week of Study	Organ Name	Organ We Absolute Organ Weijht (9ms)	ights >> Relative % of Body Weight	Relative % of Brain Weight	Organ Status
15.605.80	16/3	LIVER	390.3	3.61	458.8	
15-Feb-89	16/3	KIDNEY	47.2	0.44	55.5	
15-Feb-89	16/3	HEART	7.88	0.82	103.9	u B i H
15-Feb-89	16/3	BRAIN	85.1	0.79	100.0	
15-Feb-89	16/3	OVARIES	1.15	0.011	1.35	<b>*</b> 01
15-Feb-89	16/3	ADRENAL GLANDS	1.55	0.014	1.85	
15-Feb-89	16/3	SPLEEN	57.2	0.53	7.70	
Tissue	Finding, severity	<< 6 r	s q D s s o	Observations >>> Gross Free-Text Comments	V 2	
WHOLE BODY	NO LESIONS RECOGNIZED	JGN I ZED				
•		*	Necropsy	Memos >>		
Tissue	Necropsy memos		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
No necropsy m	No necropsy memos recorded on animal	mal				
	q >>	<pre></pre>	l o g Y histologica	0 b servations alcomments	<b>^</b>	
- I ss ne	יים יים ביים ביים יים יים יים יים יים יי					

LETTERMAN ARMY INSTITUTE OF RE DIV OF RES SUPP, PATH SERV GP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP		Individual Animal Data Dump Table Study Number: 88008f		PRINTED: 04-0ct-89 Page: 27
PRESIDIO OF SAN DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/Beagle		Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: 89A00041 Day of death: 15	100041	Femal Final	Female Group: 6 Terminal body weight (kms): 10.80	Dose level: Terminal body weight (kms):	20.0 ML/KG/day 10.80
Tissue	:	A pathologic diagnoses / Special histological comments	<pre>*</pre>	^	
CEPHALIC VEIN		nild.			

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LETTERMAN ARMY	LETTERMAN ARMY INSTITUTE OF RESEARCH	RCH .	Individual Anim Study Nu	individual Animal Data Dump Table Study Number: 88008f		PRINTED: 04-0ct-89 Page: 28
PRESIDIO OF SA	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	59	Study Start	Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: 89 Day of death: 15	A00061 Sta	. 4	1 1 1 1 1 1 1 1	Group: 6	Dose level: Terminal body weight (kms):	20.0 ML/KG/day 9.80
Date	Day/week of Study	Organ Name	Organ We Absolute Organ Weight (gms)	ights >> Relative % of Body Weight	Relative % of Brain Weight	Organ Status
21-Nar-89 21-Mar-89	50/8 50/8	LIVER	374.7	3.82	521.2	
21-Mar-89	50/8	R A K	71.9	0.73	100.0	: :
21-Mar-89	50/8		0.89	0.009	1.24	Low
21-Mar-89	50/8 50/8	SPLEEN	56.4	0.58	78.4	
T i ssue	Finding, severity	4 6 f	oss Obse Gro	Gross Free-Text Comments		
KIDNEY	FRIBROUS SCAR(S), Mild HYDRONEPHROSIS, Trace	), Mild Trace				
Tissue	Necropsy memos	¥	Necrops Y	Te a O s >>		
No necropsy me	No necropsy memos recorded on anima	mal				
Tissue	<pre>&lt;</pre> Histopathologic diagnoses	<pre></pre>	l o g y 0 histological	b servations comments	^	
LACRIMAL GLAND	:	Duct Ectasia, Slight, Multifocal.				

PATHOLOGY ANNEX A (cont.)

Inflammation, Interstitial, Subacute, Mild, Multifocal.

Lymphocyte Infiltration, Slight, Multifocal.

URINARY BLADDER

THYMUS

KIDNEY

LIVER

Hepatocellular Vacuolation, Coarse Type, Mild.

Ultimobranchial Cyst, Ciliated or Non-Ciliated, Slight. Atrophy, Mild.

Required protocol tissue is missing.

MAMMARY GLANDS

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	STITUTE OF RES	<b>-</b>	Individual Animal Data Dump Table Study Number: 88008F	e ·		PRINTED: 04-0ct-89 Page: 29
PRESIDIO OF SAN FRANCISCO, CA 74127 DOG/BEAGLE	KANLISCO, CA S		Study Start Date: 31-Jan-89			SUB-ACUTE/
Animal: 89A00661 Sex: Fem Day of death: 15 Status: Fin	100061		le Dose level: 20.0 ML/KG/day   sacrifice   Terminal body weight (kms): 9.80	rminal body	Dose level: Terminal body weight (kms):	Dose level: 20.0 ML/KG/day body weight (kms): 9.80
Tissue Histopathologic diagnose	Histopatholog		κ P a t h o l o g γ O b s e r ν a t i o n s >> Histopathologic diagnoses / Special histological comments	<b>^^</b> % C		
COLON	Required prot	Required protocol tissue is missing.				,

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LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129	F RESEARC GP CA 94129	I	Individual Animal Data Dump Study Number: 88008F Study Start Date: 31-Jan-	ividual Animal Data Dump Table Study Number: 88008F Study Start Date: 31-Jan-89		PRIMIEU: U4.OCC.69 Page: 30 SUB-ACUTE/
Animal: 89A00030	A00030	Status	Sex: Female Status: Final sacrifice	:	Group: 7 Terminal	Dose (evel: Terminal body weight (k1s):	12.0 ML/KG/day 10.60
Date	Day/week of Study	:		Organ We Absolute Organ Weight (gms)	ights >> Relative X of Body Weight	Relative % of Brain Weight	Organ Status
14.Feb-89	15/3	:	LIVER	332.0	3.13	508.3	Low
14.Feb-89	15/3		HEART	81.2	0.77	124.3	H o i H
14. Feb-89 14. Feb-89 14. Feb-89 14. Feb-89	15/3 15/3 15/3		BKAIN OVARIES ADRENAL GLANDS SPLEEN	0.63 0.85 70.4	0.00 0.00 800.0	0.96 1.30 107.9	ГОМ
Tissue	Finding,	Finding, severity	5	oss Obse Gro	Gross Free-Text Comments		
WHOLE BODY	NO LESTO	NO LESIONS RECOGNIZED	1260				
Tissue	Necropsy memos	Benos	<b>*</b>	жестор s ү	Tegos >>		
No necropsy memos	os recorded	recorded on animal					
Tissue	Histopat	<< F Histopathologic diagnoses	<pre>&lt;&lt; p a t h o liagnoses / Special</pre>	t o g y O histological	b servations vocomments	^	
LIVER		illular Va	Hepatocellular Vacuolation, Coars	Coarse Type, Mild.			
SKIN, ANTEBRACH.	. Inflammation, Folliculitis, /One follicle	ition, Sub itis, Sub licle con	Subcutaneous, Slight. Subacute, Moderate. contains multiple sec	it. ections of an acar	, Slight. derate. tiple sections of an acarid parasite, probably Demodex canis	Jemodex canis.	

LETTERMAN ARMY DIV OF RES SUP	LETTERMAN ARMY INSTITUTE OF RESEARCH	ARCH	Individual Anim Study Nu	Individual Animal Data Dump Table Study Number: 88008f		PRINTED: 04-0ct-89 Page: 31
PRESIDIO OF SA DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle		Study Start	Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: Day of death:	89A00035 15		1 1 1 1 1 1 1 1	Group: 7 Terminal	Dose level: Terminal body weight (kms):	12.0 ML/KG/day 10.95
Date	Day/week of Study	Organ Na	Organ We Absolute Organ Weight (gms)	ights >> Relative X of Body Weight	Relative % of Brain Weight	Organ Status
15-Feb-89	16/3		401.6	3.67	474.2	9 9 1 1 9
15-Feb-89	16/3	KIDNET	105.3	0.96	124.3	High
15-Feb-89 15-Feb-89	16/3	BRAIN	84.7	0.005	100.0	Low
15-Feb-89 15-Feb-89	16/3	ADRENAL GLANDS SPLEEN	1.58 102.9	0.014 0.94	1.86 121.6	
Tissue	Finding, severity	** 6 r	s q O s s o	ervations >>> Gross free-Text Comments		
WHOLE BODY	NO LESIONS RECOGNIZED	OGN1 ZED		; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	1	1
Tissue	Necropsy memos	*	жесторя	T e B O %		
PANCREAS	DEPRESSION OF MESENTERIC	MESENTERIC BORDER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Tissue			l o g y O histological	bservations comments	<b>^</b>	
LACRIMAL GLAND	Acinar Atrophy, Slight,	', Slight, Focal.	• • • • • • • • • • • • • • • • • • •			
LIVER	Hepatocellular Vacuolati	Vacuolation, Coar	on, Coarse Type, Mild.			
PANCREAS	/There is no evidence of		the atrophy reported at necropsy	cropsy.		
MAMMARY GLANDS	Required protocol tissue	ocol tissue is missing	ing.			
DUODENUM	Cyst, Glandular, Mucosal		Slight, focal.			
SKIN, ANTEBRACH.		Inflammation, Subcutaneous, Mild.				

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PATHOLOGY
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LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	TITUTE OF RESEARC ATH SERV GP	<b>*</b>	Individual Anio Study N	Individual Animal Data Dump Table Study Number: 88008f	ر <b>د</b>	_	PRINTED: 04-Oct-89 Page: 32
PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	ANCISCO, CA 94129		Study Start	Study Start Date: 31-Jan-89	Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: 89A00035 Sex: Femal Day of death: 15 Status: Final	0035 State		ice	Group: 7 Te	e sacrifice Group: 7 Terminal body weight (fms): 10.95	Dose level: ight (Lms):	12.0 ML/KG/day 10.95
Tissue Histopathologic diagnoses	Histopathologic diagnoses		Pathology Observations >> s/Special histological comments	s e r v a t i o omments	pathology Observations >> /Special histological comments		

PATHOLOGY ANNEX A (cont.)

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PATHOLOGY
(cont.):
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LETTERMAN ARMY DIV OF RES SUP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	RCH	Individual Anime Study Num	Individual Animal Data Dump Table Study Number: 88008f		PRINTED: 04-Oct-89 Page: 33
PRESIDIO OF SA DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	59	Study Start Date:	)ate: 31-Jan-89		SUB-ACUTE/
Animal: 89. Day of death: 15	A00070 Sta	Sex: Female Status: Final sacrific	Group:	7	Dose (evel: Terminal body weight (kms):	12.0 ML/KG/dey 9.30
Date	Day/week of Study		Organ We Absolute Organ Weight (gms)	ights >> Relative % of Body Weight	Relative X of Brain Weigh	Organ Status
22-Mar-89 22-Mar-89	51/8	LIVER KIDNEY	383.4	4.12	, .	
22-Mar-89	51/8	HEART	85.1	0.01 0.84	108.9	ng i M
22-Mar-89	51/8		1.20	0.013	1.54	Low
22-Mar-89 22-Mar-89	51/8 51/8	ADRENAL GLANDS SPLEEN	1.53 72.6	0.016 0.78	1.96 93.0	
Tissue		4 6 7	oss Obse Gro	Gross Free-Text Comment	>> nts	
WHOLE BODY	NO LESIONS RECOGNIZED	GNIZED				
Tissue			Kecropsy	The macos >>		
No necropsy memos	mos recorded on animal	mal				
Tissue		<pre> &lt;&lt; p a t h     diagnoses / Speci</pre>	o l o g y O al histological	b s e f v a t i o n s comments	^	
TONSIL(S)	Required protocol tissue	of tissue is missing	ing.			
LACRIMAL GLAND	) Acinar Atrophy, Mild, Mul	Mild, Multifocal				
LIVER	Hepatocellular	Hepatocellular Vacuolation, Coarse Type, Slight.	se Type, Slight.			
PANCREAS	Acinar (Exocrine) Cell At	rophy,	Slight, Multifocal.			
MES. LYMPH NODE	IE Congestion and/or Hemorrh	age of	the Medulla, Slight.			
SKIN	Required protocol tissue	ol tissue is missing	ing.			

PATHOLOGY ANNEX A (cont.)

Required protocol tissue is missing.

MAMMARY GLANDS

REPORT
PATHOLOGY
(cont.):
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LETTERMAN ARMY INSTITUTE OF RI DIV OF RES SUPP, PATH SERV GP	LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP		Individual Ani Study N	Individual Animal Data Dump Table Study Number: 88008F	Table	۵.	RINTED: 04. Page: 34	PRINTED: 04-Oct-89 Page: 34
PRESIDIO OF SAN F DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/Beagle		Study Start	Study Start Date: 31-Jan-89	89	,	•	SUB-ACUTE/
Animal: 89A00070 Day of death: 15	00070	Sex: Female Status: Final sacrifice		Group: 7	Group: 7 Terminal body weight (kms):	vel: ms):	12.0 M	12.0 ML/KG/day 9.30
Tissue			athology Observations >>/	s e r v a t i	;	•		
SKIN, ANTEBRACH.	Inflammation, Subcutaneous, Moderate. Subcutaneous Hemorrhage, Marked. Folliculitis, Subacute, Mild, Multifocal.	itaneous, Moderal hage, Marked. ute, Mild, Mult	te. ifocal.					
PARATHYROID	Ultimobranchial Cyst, Ciliated or Non-Ciliased, Mild.	it, Ciliated or 1	Non-Cilia⊾ed, Mi	ld.				

LETTERMAN ARMY DIV OF RES SUP	LETTERMAN ARMY INSTITUTE OF RESEARCH	SEARCH	Individual Animal Data Dump Study Number: 88008F	at Data Dump Table mber: 88008f		PRINTED: 04-Oct-89 Page: 35
PRESIDIO OF SA DOG/BEAGLE	sco, c		Study Start I	Start Date: 31-Jan-89		SUB-ACUTE/
Animal: Day of death:	89A00040 15	Status: F	Group:	80	Dose level: Terminal body weight (kms):	16.0 ML/KG/day 13.50
Date	Day/week of Study	Organ Na	Organ We Absolute Organ Weight (gms)	igh (s >> Relative % of Body Weight	Relative % of Brain Weight	Organ Status
15-Feb-89	16/3		459.2	3.40	484.8	
15-Feb-89	16/3	HEART	106.6	0.79	112.5	High
15-Feb-89	16/3	BRAIN	2.76	0.70	100.0	
15-Feb-89	16/3		0.92	200.0	0.97	Low
15-Feb-89 15-Feb-89	16/3 16/3	ADRENAL GLANDS SPLEEN	1.05 108.5	0.008 0.80	1.10	
Tissue	Finding, severity	< <pre>&lt;&lt; G r verity</pre>	oss Obse Gro	rvation oss Free-Text C		
SKIN	DERMATITIS, Moderate	Moderate	חרנ	ULCERATED, CHRONIC, VENTRAL	RAL NECK	1
LIVER	ABNORMAL PIG	ABNORMAL PIGMENTATION, Trace	REC	RED-BROWN		
rungs	PLEURAL ADHE	PLEURAL ADHESIONS, Trace	INW	MULTIFOCAL		
Tissue	Necropsy memos	>> sor	* e c r o p s y	Tegos >>		
No necropsy memos	mos recorded on animal	animat			· · · · · · · · · · · · · · · · · · ·	* 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
T is such		Histopathologic diagnoses / Specia	logy 0 lhistological	bservations comments	•	
בווסוושאו פראא						
TONSIL(S)	Required pro	Required protocol tissue is missing	ng.			
LIVER	Hepatocellul Inflammation	Hepatocellular Vacuolation, Coars Inflammaticn, Subacute, Slight, M	Coarse Type, Mild. ght, Multifocal.			
PANCREAS	Acinar (Exoc	Acinar (Exocrine) Cell Atrophy, Slight, Focal.	slight, Focal.			

LETTERMAN ARMY INSTITUTE OF RIDIV OF RES SUPP, PATH SERV GP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	Individual Animal Data Dump Table Study Number: 88008F	ble	PRINTED: 04-0ct-89 Page: 36
PRESIDIO OF SAN F DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: 89A00040	Animal: 89A00040 Sex: Female Day of death: 15 Status: Final sacrifice	Group: 8	Dose level: Terminal body weight (kms):	16.0 ML/KG/day 13.50
Tissue	<pre></pre>	sa +	, S C	1
ADRENAL GLANDS	Vacuolar Change, Cortical Cells, Si	Cells, Slight, Multifocal.		
SKELETAL MUSCLE	Fasciitis, Chronic, with Mineraliza	Mineralization, Moderate, Focal.		
SKIN	Dermatitis, Ulcerative, Marked, Focal.	al.		
MAMMARY GLANDS	Required protocol tissue is missing.	٠		
SKIN, ANTEBRACH.	Inflammation, Subcutaneous, Moderate. Subcutaneous Hemorrhage, Moderate.	· a		

LETTERMAN ARMY DIV OF RES SUPP.	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	ARCH	Individual Anim Study Nu	Individual Animal Data Dump Table Study Number: 88008f		PRINTED: 04-Oct-89 Page: 37
PRESIDIO OF SAN DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	129	Study Start			SUB-ACUTE/
Animal: 89A00062 Day of death: 15	A00062	Sex: Female Status: Final sacrifice	9	Group: 8 Terminal body	Dose level: body weight (kms):	16.0 ML/KG/day 9.95
Date	Day/week of Study	udy Organ Name	Organ We Absolute Organ Weight (gms)	ights Relativ Body W	ative ain W	Organ Status
39	50/8	LIVER	341.5	3.43	478.5	· · · · · · · · · · · · · · · · · · ·
21-Mar-89	8/05	KIDNEY	45.1	0.45	65.2	, , , , , , , , , , , , , , , , , , ,
21-Mar-89	50/8	HEART	0.08	6.80	100.0	- - -
21-Mar-89	20/02	DVARIES	0.83	0.008	1.17	
21-Mar-89	50/8	ADRENAL GLANDS	1.20	0.012	1.69	
21-Mar-89	8/05	SPLEEN	110.7	1.1	155.2	
Tissue	Finding, severity	<< 6 r	s q O s s o	ervations >>> ross Free-Text Comments	,	
<b>B</b> 00 Y						
Tissue	Necropsy memos	*	Necropsy	74 S O E U X		
No necropsy memos	tos recorded on animal	imal				
4 i o o i L	<pre></pre>	Path /Spec	ology O ial histological	bservations comments	^	
PITUITARY GLAND					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
LACRIMAL GLAND	Required protocol tissue	col tissue is missing	ing.			
SCIATIC NERVE	Required protocol tissue	col tissue is missing	ing.			
LIVĖR	Mepatocellular Vacuolation,		Coarse Type, Slight.			
C 1 AP HRAGM	Required protocol tissue	col tissue is missing	ing.			
PIAMMARY GLANDS	Required protocol tissue	col tissue is missing	ing.			
SKIN, ANTEBRACH.	i. Inflammation, Subcutaneou	Subcutaneous, Moderate	rate.			

REPORT
PATHOLOGY
(cont.)
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Appendix

LETTERMAN ARMY INSTITUTE OF REDIVED OF RESIDENCE	LETTERMAN ARMY INSTITUTE OF RESEARCH		Individual Animal Data Dump Table Study Number: 88008f	able	PRINTED: 04-0ct-89 Page: 38
PRESIDIO OF SAN F DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/Beagle		Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: 89A00062 Day of death: 15	00062		Group: 8	le Group: 8 Terminal body weight (kms): 9.95	16.0 ML/KG/day 9.95
Tissue	Tissue Histopathologic diagnose		Pathology Observations >>> / Special histological comments	Pathology Observations >> S/Special histological comments	
SKIN, ANTEBRACK.		rrhage, Moderate.			

LETTERMAN ARM DIV OF RES SU	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	RESEARCH 3P		individual Anima Study Nur	Individual Animal Data Dump Table Study Number: 88008F		PRINTED: 04 0:t-89 Page: 39	34 02t-89
PRESIDIO OF S 30G/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	A 94129		Study Start [	Study Start Date: 31-Jan-89		σ,	SUB-ACUTE/
Animal: 89 Day of death: 15	89A00068	Sex: Female Status: Final	e sacrifice	10.19	Group: 8 Terminal	Dose level: Terminal body weight (kms):	16.0 ML/KG/day 10.00	/KG/day
Date	Day/week of Study		: •	Organ We Absolute Organ Weight (gms)	ights >> Relative % of Body Weight	Relative % of Brain Weight	Organ Status	
22-Mar-89	51/8	LIVER	, ,	374.2	3.74	475.5		
22-Mar-89 22-Mar-89	51/8	KIDNET		87.4	0.87	111.0	High	
22-Mar-89		BRAIN		78.7	0.79	100.0	:	
22-Mar-89		OVARIES ADREMAL C	SUANDS	1.73	0.017	2.20	<b>*</b> 0.1	
22-Har-89	51/8			113.1	1.13	143.7		
Tissue	Finding, severity	< <s< td=""><td>0 7 0</td><td>s s Observ Gross F</td><td>Gross Free-Text Comments</td><td></td><td></td><td></td></s<>	0 7 0	s s Observ Gross F	Gross Free-Text Comments			
WHOLE BODY	NO LESTONS	NO LESIONS RECOGNIZED						
T issue	Necropsy memos	nemos	*	e c r o p s y	Teeos >>			, , , ,
No necropsy m	No necropsy memos recorded on animal	on animal	* t					
Tissue	Histopatho	'gic diagnoses	Pathol /Special		bservations comments	^		• • • • •
LACRIMAL GLAND	:	Lymphocytic Infiltration, Slight, Focal	Slight, Fo	)ca(.				

Hepatocellular Vacuolation, Coarse Type, Mild. LIVER

Ultimobranchial Cyst, Ciliated or Non-Ciliated, Slight.

THYMUS

MES. LYMPH NODE Congestion and/or Kemorrhage of the Medulla, Slight.

MAMMARY GLANDS Required protocol tissue is missing.

STOMACH Lymphocyte Aggregates in Submucosa, Mild.

SKIN, ANTEBRACH. Required protocol tissue is missing.

Appendix I (cont.): PATHOLOGY REPORT

	4 4		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	TE OF RESEARCH Serv GP	Individual Animal Data Dump Table Study Number: 88008F	PRINTED: 04-0ct-89 Page: 40
PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE		Study Start Date: 31-Jan-89	SUB-ACUTE/
Animal: 89A00068 Day of death: 15		Group: 8 Dose (evel: 16.0 ML/KG/day sacrifice Terminal body weight (kms): 10.00	16.0 ML/KG/day 10.00
7 Tissue Histopathologic diagnoses		athology Observations >> / Special histological comments	
PARATHYROID UIT	Ultimobranchial Cyst, Ciliated or No	ated or Non-Ciliated, Slight.	

Required protocol tissue is missing.

CEPHALIC VEIN

PATHOLOGY ANNEX A (cont.)

LETTERMAN ARM DIV OF RES SU	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	ARCH	Individual Animal Data Dump Study Number: 88008F	l Data Dump Table ber: 88008f		PRINTED: Page:	04-0ct-89 41
PRESIDIO OF S.	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	129	Study Start D	Study Start Date: 31-Jan-89			SUB-ACUTE/
Animal: 89 Day of death: 15	A00026	Sex: Female Status: Final sacrifice		Group: 9 Terminal	Dose level: Terminal body weight (kms):	20.0	20.0 ML/KG/day 9.80
Date	Day/week of Study	:	Organ We Absolute Organ Weight (gms)	ights >> Relative % of Body Weight	Relative % of Brain Weight	Organ Status	
74.30	15/3	LIVER	323.9	3.31	420.1	Low	
14-Feb-89	15/3	KIDNEY	55.2	0.56	71.6	E 4	
14-Feb-89		HEART	7.77	0.79	4.00.	150 E	
14-Feb-89		BRAIN	77.1	\$\.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0:00+	30	
14-Feb-89			1.84	0.003	1.64	:	
14-Feb-89 14-Feb-89	15/3	SPLEEN	55.4	0.56	71.8		
Tissue	Finding, severity	, 6	ess obse	Gross Free-Text Comments			
TOWSTL(S)	FOREIGN MATERIAL IN CRYI	IAL IN CRYPT, Mild	0 &	RIGHT SIDE			
j		*	Necropsy	** ** O E • **			
Tissue	Necropsy memos	, , , , , , , , , , , , , , , , , , , ,					
OVARIES	CORPUS MEHORRHAGICUM IN	HAGICUM IN LEFT OVARY	<b>&gt;</b>				
Tissue	<< Histopathologic diagnoses	_ `	l o g y 0 l histological	Observations (comments	\$	1	
BRAIN	/needs hippocampus	ppocampus					
SALIVARY GLAND	ND Required protocol tissue	ocol tissue is missing.	ng.				

#### PATHOLOGY ANNEX A (cont.)

Acinar Hypertrophy and Vacuolation, Mild, Multifocal.

Hepatocellular Vacuolation, Coarse Type, Mild.

Required protocol tissue is missing.

LACRIMAL GLAND

LIVER PANCREAS

TOWSIL(S)

Crypt Abscess, Marked, Focal.

SUB-ACUTE/

20.0 ML/KG/day

Dose level:

Terminal body weight (kms):

Observations

Histopathologic diagnoses / Special histological comments

Required protocol tissue is missing.

Sinus Neutrophilia, Mild.

MES. LYMPH NODE MAMMARY GLANDS

e Pathology

Status: Final sacrifice

Sex: Female

Animal: 89A00026 Day of death: 15

DOG/BEAGLE

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129

Ultimobranchial Cyst, Ciliated or Non-Ciliated, Slight, Focal.

Subcutaneous Hemorrhage, Moderate.

Sinus Histiocytosis, Mild.

Miscellaneous.

SUBMANDIBULAR LN

SKIN, ANTEBRACH.

Required protocol tissue is missing.

PARATHYROID CEPHALIC VEIN

9.80

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PATHOLOGY REPORT

Appendix I (cont.):

Individual Animal Data Dump Table Study Number: 88008F

Study Start Date: 31-Jan-89

Group: 9

PATHOLOGY ANNEX A (cont.)

LETTERMAN ARMI	LETTERMAN ARMY INSTITUTE OF RESEARCH	EARCH	Individual Animal Data Dump Study Number: 88008F	mal Data Dump Table umber: 88008f		PRINTED: 04-Oct-89 Page: 43
PRESIDIO OF SA DOG/BEAGLE	ò		Study Start			
Animal: 89. Day of death: 15	A00037	- H	1 1 1 1 1 1 1 1	•	Dose level: Terminal body weight (kms):	20.0 ML/KG/day 11.45
Date	Day/week of Study	Organ Nam	Organ W Absolute Organ Weight (gms)		tive X in Wei	Organ Status
15-Feb-89	16/3	LIVER	413.5	3.61	502.3	
15-Feb-89	16/3	KIDNEY	8.97	0.41	56.8	
15-Feb-89	16/3	HEART	91.9	0.80	111.6	нідһ
15-Feb-89	16/3	BRAIN	82.3	27.0	100.0	::
15-160-89	16/3	ADDENAL CLANDS	585	0.030		*
15-Feb-89	16/3		24.5	0.65	90.5	
Tissue	Finding,		s q O s s o	ervations >> Gross Free-Text Comments		
LUNGS	CONSOLIDATION, Trace	TION, Trace	· I I I I I I I I I I I I I I I I I I I	MULTIFOCAL PALE FOCI	· · · · · · · · · · · · · · · · · · ·	1
		*	Necropsy	Reaos ^^		
	some actorial memory					
OVARIES		N ONE OVARY				
T is sue	Kistopatholog	<pre>&lt;&lt; P a t h o Mistopathologic diagnoses / Special</pre>	logy 0 histological	bservations comments	<b>^</b>	
PITUITARY GLAND		Histiocytosis, Mild, Focal.	acrophages.			
107110701	thoils assessed their	140:10	•			
		-		-		
LONGS		ioliammacion, increistriat, soba	מספו שופי			
LIVER	Hepatocellula	Hepatocellular Vacuolation, Coar	Coarse Type, Mild.			
KIONEY	Inflammation,	Inflammation, Interstitial, Suba	Subacute, Slight, Focal	ن		
OVARIES	/The corpora	/The corpora lutea are normal.				

LETTERMAN ARMY INSTITUTE OF RE DIV OF RES SUPP, PATH SERV GP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP		Individual Animal Data Dump Table Study Number: 88008f	able	PRINTED: 04-Oct-89 Page: 44
PRESIDIO OF SAN F DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/Beagle	Study S	Study Start Date: 31-Jan-89	<u>0.</u>	SUB-ACUTE/
Animal: 89A00037 Day of death: 15		Sex: Female Status: Final sacrifice	6 : dno 19	e Group: 9 Dose level: 20.0 ML/KG/day sacrifice Terminal body weight (kms): 11.45	20.0 ML/KG/day 11.45
Tissue	A Flissue Histopathologic diagnoses		Observati alcomments	Pathology Observations >> /Special histological comments	
PANCREAS	Acinar (Exocrine) Cell At		· · · · · · · · · · · · · · · · · · ·	rophy, Mild, Multifocal.	1

SPLEEN Siderotic Plaque, Slight, Focal.

MAMMARY GLANDS Required protocol tissue is missing.

PARATHYROID Required protocol tissue is missing.

CEPHALIC VEIN Required protocol tissue is missing.

						00 000
LETTERMAN ARMY DIV OF RES SUP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	XC X	Individual Anima Study Num	Individual Animal Data Dump Table Study Number: 88008f		PRINIEU: U4-UCT-59 Page: 45
PRESIDIO OF SA DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	50	Study Start (	Study Start Date: 31-Jan-89		SUB-ACUTE/
Animal: 89 Day of death: 15	A00060	Sex: Female Status: Final sacrifice		Group: 9 Terminal	Terminal body weight (kms):	20.0 ML/KG/day 10.40
0 67	Day/week of Study	Organ Name	Organ Wer Absolute Organ Weight (gms)	ights >> Relative % of Body Weight	Relative % of Brain Weight	Organ Status
				1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	t 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
21-Mar-89	50/8	LIVER	535.2	5.15	693.5	C G I
21-Mar-89	50/8	KIDNEY	62.9	0.60	81.5	46 H
21-Mar-89	50/8	HEART	7.76	0.91	122.3	H191
21-Mar-89	50/8	BRAIN	77.2	0.74	100.0	
21-Mar-89	50/8	OVARIES	2.60	0.025	3.37	F0#
21-Mar-80	50/8	ADRENAL GLANDS	1.30	0.013	1.69	
21-Mar-89	50/8		6.79	0.65	88.0	
		2 9 >>	es o pse	servations >>		
Tissue	Finding, severity	ty	0.0	oss Free-Text Comments	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
WHOLE BODY	NO LESTONS RECOGNIZED	GNIZED				
		¥	X e C L O B S Y	K G B O S A >		
Tissue	Necropsy memos					
No necropsy me	No necropsy memos recorded on animal	mał				

Histopathologic diagnoses / Special histological comments
Hepatocellular Vacuolation, Coarse Type, Mild.

Tissue -----LIVER PANCREAS Acinar (Exocrine) Cell Atrophy, Slight, Multifocal.

ADREWAL GLANDS Vacuolar Change, Cortical Cells, Slight, Multifocal.

MES. LYMPH NODE Congestion and/or Hemorrhage of the Medulla, Slight.

DIAPHRAGM Required protocol tissue is missing.

Lymphocyte Aggregates in Submucosa, Mild, Multifocal.

STOMACH

Cyst, Glandular, Mucosal, Slight, Focal.

REPORT
PATHOLOGY
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LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP		Individual Animal Data Dump Table Study Number: 88008F	PRINTED: U4-Oct-89 Page: 46
PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE		study Start Date: 31-Jan-89	SUB-ACUTE/
Animal: 89A00060 Sex: Femal Day of death: 15 Status: Final		Group: 9 Dose level: 20.0 ML/KG/day sacrifice Terminal body weight (kms): 10.40	wel: 20.0 ML/KG/day (ms): 10.40
Tissue Histopathologic diagnoses		athology Observations >> / Special histological comments	
CKIN ANTERDACH INFLI	oven autropach inflammation Subcutaneous, Marked.		

PATHOLOGY ANNEX A (cont.)

		Appendia	. ()				
LETTERMAN ARM DIV OF RES SU	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	ARCH	Individual Animal Data Dump Study Number: 88008F	mal Data Dump Table umber: 88008f		PRINTED: Page:	04-0ct-89 47
PRESIDIO OF S DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	129	Study Start	Study Start Date: 31-Jan-89		,	SUB-ACUTE/
Animal: 89 Day of death: 15	A00034	Sex: Female Status: Final Sacrifice	· · · · · · · · · · · · · · · · · · ·	Group: 10 Terminal	Dose level: Terminal body weight (kms):	20.0 10.15	ML/Ku/day
Date	Day/week of Study	Organ Nam	<ul> <li>O r g a n W</li> <li>Absolute Organ</li> <li>Weight (sms)</li> </ul>	e i g h t s >> Relative % of Body Weight	Relative X of Brain Weight	Organ Status	
15-Feb-89	16/3	LIVER	310.3	3.06	~	LOW	
15-Feb-89	16/3	KIDNEY	48.7	0.48	60.3 92.3	High	
15-Feb-89	16/3	BRAIN	80.8	0.80	100.0		
15-Feb-89	16/3			0.020	2.50	LOW	
15-Feb-89 15-Feb	16/3 16/3	ADRENAL GLANDS SPLEEN	1.34	0.013 0.45	1.66 56.0		
		· •	s oc ssor	ervations >>			
Tissue	Finding, severity	. 1 t y					
WHOLE BODY	NO LESIONS RECOGNIZED	ZED					
Tissue	Necropsy memos	<b>*</b>	Y 2 C O C O S S S S S S S S S S S S S S S S			1	
MAMMARY GLANDS	;	ENLARGED AND CONGESTED, CONSIDERED	RED WITHIN NORMAL LIMITS	IMITS			
OVARIES	CORPUS LUTEUM, CONSIDERED	, CONSIDERED NORMAL	ı,				
UTERUS	SLIGHTLY THICK	SLIGHTLY THICKENED RELATIVE TO OTHERS,		CONSIDERED WITHIN NORMAL LIMITS			
Tissue	<< F Histopathologic diagnoses	<pre></pre>	logy Ihistological	Servations omments	â		
OVARIES	/The corpora lutea are not	/The corpora lutea are normal.		1			

Inflammation, Subcutaneous, Mild.
Subcutaneous Hemorrhage, Moderate.
PATHOLOGY ANNEX A (CONt.)

Congestion and/or Hemorrhage of the Medulla, Slight.

/Mammary development is normal.

SKIN, ANTEBRACH.

MES. LYMPH NODE MAMMARY GLANDS

Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF REDIT OF DESTREES OF THE SERV GP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	Individua: Animal Data Dump Table Stidy Number: 88008F		PRINTED: 04-Oct-89 Page: 48
PRESIDIO OF SAN DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle			SUB-ACUTE/
Animal: 89A00034 Day of death: 15	000034 Status: Final	Group: 10 Termina	Dose level:	20.0 ML/KG/day 10.15
Tissue		athology Observations >> / Special histological comments	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
PARATHYROID	Ultimobranchial Cyst, Ciliated	ated or Non-Ciliated, Mild.		
CEPHALIC VEIN	Endophlebitis, Mild, Focat.			

PATHOLOGY ANNEX A (cont.)

Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARM DIV OF RES SUI	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	EARCH	Individual Animal Data Dump Study Number: 88008F	nal Data Dump Table Imber: 88008f		PRINTED: 04-0ct-89 Page: 49
PRESIDIO OF SADOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	4129	Study Start	₩.		
Animal: Day of death:	89A00059 15	: Female : Final sacr		. 10	re i	20.0 ML/KG/day 8.70
Date	Day/week of Stu	1 1 1	O r Absot	ights Relativ Body W	Relative % of Brain Weight	Organ Status
21-Mar-89	50/8	LIVER	359.6		430.4	
21-Mar-89	50/8	KIDNEY	51.6	0.59	61.7	#19h
21-Mar-89	50/8	HEART	97.5	1.05	. 00.	50.2
21-Mar-89	20/8	SKAIN	63.3	0.30	111	- I
21-MBF-09	5078	ADREMAL GLANDS	1.03	0.012	1.24	<b>:</b>
21-4ar-89	\$0.8	,	75.6	0.87	90.5	
Tissue	Finding, severity		oss Obse Gr	rvation oss Free-Text		
LUNGS	CONSOLIDATION, Trace	ATION, Trace		X 1 MM WHITE FOCI		
Tissue	Necropsy memos		N 6 0 1 0 9 5 V	He Bos >>		
No necropsy memos	emos recorded on animal	nimal	· · · · · · · · · · · · · · · · · · ·	1		
Tissue		ੂੰ <	t o g y 0 histological	bservations comments	•	
LACRIMAL GLAND	:	Ouct Ectasia, Slight. Acinar Atrophy, Slight, Multifocal. Lymphocytic Infiltration, Mild, Focal.	al. Focal.			
LUNGS	Inflammation,	Inflammation, Interstitial, Subac	Subacute, Slight, Multifocal	focal.		
LIVER	Mepatocellula Extramedullar	Hepatocellular Vacuolation, Coars Extramedullary Hematopoiesis, Sli	, Coarse Type, Mild. is, Slight, Multifocal.			
PANCREAS	Acinar (Exocr	Acinar (Exocrine) Cell Atrophy, S	Slight.			
THYMUS	Ultimobranchial Cyst, Cili		ated or Non-Cilinted, Slight.	ght.		
URETER	Required protocol tissue i	s	nissing. PATHOLOGY ANNEX	: A (cont.)		

REPORT
PATHOLOGY
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LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP	STITUTE OF RESEA! PATH SERV GP		ndividual Animal Data Dump Table Study Number: 88008f	Table	PRINTED: 04-Oct-89 Page: 50
PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	RANCISCO, CA 941)		Study Start Date: 31-Jan-89	89 SUB-ACUTE/	SUB-ACUTE/
Animal: 89A00059 Sex: Female	00059	Sacrif	Group: 10	Dose level: Terminal body weight (kms):	20.0 ML/KG/day 8.70
Tissue	<pre></pre>	diagnoses / Special	athology observations // /Special histological comments	n =	,
					)
SKELFTAL MUSCLE	Required protocol tissue	ol tissue is missing.			

Folliculitis, Subacute, Slight, Multifocal.

Required protocol tissue is missing. Required protocol tissue is missing.

MAMMARY GLANDS

DUODENUM

Required protocol tissue is missing.

DIAPHRAGM

SKIN

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	INSTITUTE O P, PATH SERV	IF RESEAR	н эг	Irdividuel Anima S∵udy Num	Individual Animal Data Dump Table S∵udy Number: 88008F		PRINTED: 04-Oct-89 Page: 51
PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	N FRANCISCO,	CA 9412	6	Study Start D	Start Date: 31-Jan-89		SU8-ACUTE/
Animal: 89A00067 Day of death: 15	: 89A00067 : 15	Sex: Status:	Sex: female atus: final sacrifice		Group: 10 Terminal body	Dose level: body weight (kms):	20.0 ML/KG/day 9.90
Date	Day/week of		Organ Name	. ¯ <b>≪</b>	ights >>> Relative % of Body Weight	Relative % of Brain Weight	Organ Status
22-Mar-89	51/8		LIVER	325.8	3.29	438.9	LOM
22-Mar-89 22-Mar-89	51/8 51/8		K I DNE Y HE ART	81.3	0.82	109.5	High
22-Mar-89	51/8		BRAIN	74.2	0.75	100.0	*01
22-Mar-89 22-Mar-89	51/8			1.38	0.014	1.86 67.4	
Tissue	Finding,	Finding, severity	, 6 r	s q O s s o	ervations>>> Gross Free-Text Comments		
WHOLE BODY	NO LESTO	NO LESIONS RECOGNIZED	NIZED	, , , , , , , , , , , , , , , , , , ,			
		. memos	*	Necrops.	× × × × × × × × × × × × × × × × × × ×		
No necropsy menos		recorded on animal	19 (	5	* * * * * * * * * * * * * * * * * * *		
Tissue	Histopat	hologic	<pre></pre>	t o g y 0 histological	ervations lents	<b>^</b>	
SALIVARY GLAND		Inflammation, Chronic,	Chronic, Slight, Focal	ocal.	1		
THYROID GLAND	Cyst, Ci	Cyst, Ciliated or Non-	or Non-Ciliated, Slight.	Slight.			
LIVER	Hepatoce	(lular V	Hepatoce(lular Vacuolation, Coarse Type, Slight	se Type, Slight.			
MAMMARY GLANDS	Required	protoco	Required protocol tissue is missing	ing.			
SKIN, ANTEBRACH.		eous Hem	Subcutaneous Hemorrhage, Slight.				
PARATHYROID	Required	protoco	Required protocol tissue is missing.	ing.			

LETTERMAN ARMY DIV OF RES SUPF	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	ARCH	Individual Animal Data Dump Study Number: 88008M	al Data Dump Table mber: 88008M		PRINTED: 26-Oct-89 Page: 1
PRESIDIO OF SAN DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	129	Study Start Date:	Date: 07-Feb-89		SUB-ACUTE/
Animal: 89. Day of death: 15	A00012	1 E 14	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:dn	Dose level:   body weight (kms):	12.0 ML/KG/day 13.00
Date	. >	Organ Name	Organ We Absolute Organ Weight (gms)	ights >> Relative % of Body Weight	Relative X of Brain Weight	Organ Status
22-feb-89 22-feb-89 22-feb-89	15/3	LIVER KIDNEY HEART	461.0 69.6 98.9	3.55 0.54 0.76	518.8 78.3 111.3	High
22-Feb-89 22-Feb-89 22-Feb-89 22-Feb-89	16/3 16/3 16/3 16/3	BRAIN ADRENAL GLANDS TESTIS SPLEEN	88.9 1.54 21.34 114.1	0.68 0.012 0.164 0.88	100.0 1.73 24.02 128.4	, ,
Tissue	finding, severity	<< 6 r	oss Obse Gr	vatio s Free-Text	N	
LUNGS	CONSOLIDATION, Marked	Marked	NO	ONLY IN L. CARDIAC LOBE	, , , , , , , , , , , , , , , , , , ,	
SPLEEN	ACCESSORY SPLEENS,	ENS, Mild	15	- 20, IN OMENTUM		
PANCREAS	CONGESTION, MILA	ן ק	10	DIFFUSE DARK PINK		
Tissue	∕sd	*	¥ e c r o p s ⊀	44 S O E 9 %		
No necropsy me	memos recorded on anima	imal				
Tissue	<< Histopathologic diagnoses	е <u>_</u>	o l o g y 0 ial histological	bservations comments	^	
LUMGS	Inflammation, Hemorrhagic		Acute, Moderate, Multifocal	cal.		
LIVER	Hepatocellular Vacuolation,		Coarse Type, Mild.			
KIDNEY	Inflammation,	Inflammation, Interstitial, Subacute,	cute, Slight, Focal			
THYMUS	Ultimobranchia	Ultimobranchial Cyst, Ciliated or	or Non-Ciliated, Mild	d.		
SPLEEN	Accessory Spleens, Slight	ens, Slight, Multifocal	focal.			

#### PATHOLOGY ANNEX B

#### PATHOLOGY REPORT (cont.): H Appendix

LETTERMAN ARMY INSTITUTE OF REDIT OF RESIDED OF SAN FRANCISCO, CA	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129	Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-Oct-89 Page: 2
DOG/BEAGLE				SUB-ACUTE/
Animal: 89A00012 Day of death: 15	00012	group: 1	Dose level: Terminal body weight (kms):	Dose level: 12.0 ML/KG/day eight (kms): 13.00
Tissue	Histopathologic diagnoses	of Pathology Observations >> agnoses / Special histological comments	^	
MES. LYMPH NODE	Congestion and/or Memorrh	Hemorrhage of the Medulla. Slight.		

Required protocol tissue is missing. MAMMARY GLANDS

Folliculitis, Subacute, Slight, Focal. SKIN, ANTEBRACH.

Cartilaginous Rest(s), Slight, Multifocal. PARATHYROID

(cont.) Ø PATHOLOGY ANNEX

PATHOLOGY REPORT Appendix I (cont.):

LETTERMAN ARM DIV OF RES SUI	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	ARCH	Individual Anime Study Num	Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-Oct-89 Page: 3
PRESIDIO OF S. DOG/BEAGLE	AN FRANCISCO, CA 94	129	Study Start C	Study Start Date: 07-Feb-89		SUB-ACUTE/
Animal: 89 Day of death: 15	A00042	Sex: Male Status: Final Sacrifice		Group: 1 Terminal	Dose level: Terminal body weight (kms):	12.0 ML/KG/day 11.70
Date	Day/week of Study	:	Organ We Absolute Organ Weight (gms)	ights >> Relative x of Body Weight	Relative % of Brain Weight	Organ Status
28-Mar-89 28-Mar-89	50/8	LIVER	465.2	3.98	507.0	
28-Mar-89	50/8	HEART	107.6	0.92	117.3	ngrk
28-Mar-89 28-Mar-89	50/8 50/8	ADRENAL GLANDS	1.43	0.012	1.56	3
28-Mar-89 28-Mar-89	50/8 50/8	SPLEEN	51.0	77.0	55.5	
Tissue	Finding, severity	< 6 F ity	e s q 0 e s o	Gross Free-Text Comments	8	
WHOLE BODY	NO LESIONS RECOGNIZED	OGN12E0				
Tissue	Necropsy memos	*	Necropsy	M e = 0 s >>		
No necropsy m	No necropsy memos recorded on animal	imal				
Tissue	Histopathologi	<pre></pre>	A pethologic diagnoses / Special histological comments	Observations alcomments	<b>^</b>	
LIVER	Hepatocellular	Hepatocellular Vacuolation, Coarse Type, Mild	se Type, Mild.			

B (cont.) PATHOLOGY ANNEX

Hemorrhage, Acute, Slight.

Endophlebitis, Slight.

CEPHALIC VEIN

SPLEEN LIVER

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	INSTITUTE OF	RESEARCH GP		Individual Anim Study Nu	Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-Oct-89 Page: 4
PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	N FRANCISCO,	CA 94129		Study Start	Study Start Date: 07-Feb-89		SUB-ACUTE/
Animal: 89A00058 Day of death: 15	89A00058	Sex: Male Status: Final	sacrifice		Group: 1 Terminal	Dose level: Terminal body weight (kms):	12.0 ML/KG/day 10.80
0 o t o	Day/week of Study	Study Organ Name		Organ We Absolute Organ Weight (gms)	ights >> Relative X of Body Weight	Relative % of Brain Weight	Organ Status
29-Mar-89 29-Mar-89	51/8	LIVER	, (	492.6	4.56	580.6	T G I H
29 · Mar - 89	51/8	HEART		86.6 8.48	0.80	102.1	High
29-Mar-89	51/8	ADRENAL	GLANDS	1.91	0.018	2.25	
29-Mar-89 29-Mar-89	51/8	TESTIS		14.35	0,133 1.03	16.92 131.4	LOW
Tissue	Finding, severity	severity	0 1 9 >>	es o o ps e	bservations >> Gross Free-Text Comments		
WHOLE BODY	NO LESTON	NO LESIONS RECOGNIZED	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1			
Tissue	Necropsy memos	пепоs	>	e c r o p s y	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		,

^ Observations Histopathologic diagnoses / Special histological comments Hepatocellular Vacuolation, Coarse Type, Mild. Extramedullary Hematopoiesis, Slight, Multifocal. Pathology LIVER Tissue

No necropsy memos recorded on animal

KIDNEY Proteinaceous Casts, Slight.

ADRENAL GLANDS Vacurlar Change, Cortical Cells, Slight.

MES. LYMPH NODE Congestion and/or Hemorrhage of the Medulia, Moderate.

DUODENUM Cyst, Glandular, Mucosal, Slight, Focal.

PARATHYROID Required protocol tissue is missing.

LETTERMAN ARMY INSTITUTE OF RIDIV OF RES SUPP. PATH SERV GP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP	RCH .		Individual Ani Study N	Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-Oct-89 Page: 5
PRESIDIO OF SAN F	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	56		Study Start	Study Start Date: 07-Feb-89		SUB-ACUTE/
 p th: 1		# L	sacrifice		Group: 2 Terminal	Terminal body weight (kms):	16.0 ML/KG/day 11.80
Date De	Day/week of Study	dγ Organ Name		Absolute Organ	e i g h t s >> Relative % of Body Weight	Relative X of Brain Weight	Organ Status
•	15/3	LIVER	, ,	492.4	4.17	95.3	£ 65.3
21-feb-89 21-feb-89 21-feb-89	15/3 15/3 15/3	HEART Brain Adrenal	GLANDS	75.8 1.01	0.45	100.0	
21-Feb-89 21-Feb-89	15/3 15/3	TESTIS		18.69 103.8	0.88 0.88	136.9	
Tissue	S	ity ,	5	s q 0	Gross Free-Text Comments		
SKIN	DERMATITIS, Trace	ace	1 1 1 1 1	0	CM DIAMETER,	L. VENTRAL	NECK (INJECTION SITE)
Tissue			Ÿ	Recrops Y	X		
No necropsy memo	No necropsy memos recorded on animal	imat	; ; ; ;				
Tissue		<< c diagnoses	Path 7 Speci	<pre>Aistopathologic diagnoses / Special histological comments</pre>	bservations comments	*	
LIVER		Vacuolatio	on, Coars	Hepatocellular Vacuolation, Coarse Type, Moderate.			
MES. LYMPH NODE	Congestion and/or Hemorrhage of the Medulia,	/or Hemorr	age of t	he Medulia, Slight	it.		
SKIN	Folliculitis, Subacute, I /The subacute folliculit	Subacute, P folliculit	Moderate, Focal is is in the sk	Moderate, focal. is is in the skin of the neck.	neck.		
MAMMARY GLANDS	Required protocol tissue	col tissue	is missing	.60			
SKIN, ANTEBRACH.	Hemorrhage, Moderate	derate.					

Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP	Y INSTITUTE OF	F RESEARC	<b>T</b>		Individual Anim Study No	Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-Oct-89 Page: 6
PRESIDIO OF SAW FRANCISCO, CA 94129 DOG/BEAGLE	AN FRANCISCO,	CA 94129			Study Start	Study Start Date: 07-Feb-89		SUB-ACUTE/
Animal: 89/ Day of death: 15	Animal: 89A00009 death: 15	Statu	Sex: Male Status: Final	sacrifice	:	Group: 2 Terminal	Dose level: Terminal body weight (kms):	16.0 ML/KG/day 13.10
Date	Day/week of Study		2		Organ Websolute Organ	e i g h t s >> Relative X of Body Weight	Relative % of Brain Weight	Organ Status
00 100	1/71	•		:	599.0	4.57	658.2	High
22-reb-69	·		KIDNEY		6.92	0.59	84.5	High
22.6.6.80	•		HFART		101.8	0.78	111.9	нідр
22-1-07	•		RRAIN		91.0	69.0	100.0	
08-4-3-22	·		ADREMAI	GLANDS	1.37	0.010	1.51	
22 - Feb - 89			TESTIS		26.11	0.199	28.69	Low
22-Feb-89	16/3		SPLEEN		7.89	0.52	75.2	
			•	5 5	sq0 sso	Observations >>		
Tissue	finding,	finding, severity			G	ross Free-Text Comments		
WHOLE BODY	NO LESTO	NO LESIONS RECOGNIZED	1 2 E O	1 1 1 1 1				
				¥	Y e C T O D S Y	Menos >>		
Tissue	Necropsy memos	memos						
No necrobsy m	No necropsy memos recorded on animal	on anima		•				

Congestion and/or Hemorrhage of the Medulla, Mild.

MES. LYMPH NODE

LIVER

Tissue

^

Hepatocellular Vacuolation, Coarse Type, Moderate. Inflammation, Interstitial, Subacute, Mild, Focal.

LETTERMAN ARMY DIV OF RES SUP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	•	ı I	Individual Anim Study Nu	Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-Oct-89 page: 7
PRESIDIO OF SA DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	CA 94129		Study Start	Study Start Date: 07-Feb-89		SUB-ACUTE/
Animal: 89 Day of death: 15	Animal: 89A00047 death: 15	Status: Fina	Male Final sacrifice	1	Group: 2 Terminal	Dose level: body weight (kms):	16.0 ML/KG/day 11.00
Date	Day/week of		Organ Name	Organ We Absolute Organ Weight (gms)	ights >> Relative % of Body Weight	Relative % of Brain Weight	Organ Status
28-Mar-89	\$ 20/8	LIVER	•	480.4	78.7	572.5 A8 5	High
28-Mar-89 28-Mar-89	\$0 <b>/8</b> \$0 <b>/8</b>	RIDNET	RT	88.9	0.81	105.9	High
28-Mar-89	8/05	BRAIN	BRAIN	83.9	0.76	100.0	
28-Mar-89	50/8	TES		15.88	0.144	18.93	Low
28-Mar-89	8/05	SPL	SPLEEN	85.6	0.78	102.1	
Tissue	Finding, severity	Severity		s q O s s o	ervations >>		
WHOLE BODY	NO LESION	NO LESIONS RECOGNIZED	0				
Tissue	Necropsy memos	петоѕ	*	Necropsy	<b>T</b> e <b>B</b> o s ^>		
No necropsy memo	No necropsy memos recorded on animal	on animal	: : : : : : : : : : : : : : : : : : :				
Tissue	Histopath	Histopathologic diagnoses	<< Patho noses / Specia	l o g y 0 I histological	bservations comments	^	
LUNGS	Alveolar	Alveolar Proteinosis, Slight,	, Slight, Foca	. Je:			
URINARY BLADDER		Thrombosis, Slight, Focal	Focal.				
MAMMARY GLANDS		Required protocol tissue	ssue is missing	ng.			
SKIN, ANTEBRACH.		e, Mild. tis, Subacu	Hemorrhage, Mild. Folliculitis, Subacute, Slight, Multifocal	lultifocal.			

LETTERPAN ARMY DIV OF RES SUF	LETTERPAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	EARCH	Individual An Study I	Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-Oct-89 Page: 8
PRESIDIO OF SA DOG/8E/GLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/be/gle		Study Star	••		SUB-ACUTE/
inimal: 89.	A00002	ale inal	Sacrifice	Group: 3 Terminal	Dose level: Terminal body weight (kms):	<b>*</b> ;
Date	Day/week of Study	!	Absolute Organ Weight (gms)	e i g h t s -> Relative X of Body Weight	Relative % of Brain Weight	Organ Status
21-Feb-89	15/3	LIVER	522.8	4.77	0.869	High
21-Feb-89	15/3	KIDNEY	52.0	27.0	7.69	
21-Feb-89	15/3	HEART	84.6	0.77	113.0	49 H
21-Feb-89	15/3			0.68	100.0	
21-Feb-89 21-Feb-80	15/3	TESTIS	_	0.155	22.70	LOW
21-feb-89	15/3	SPLEEN	9.99	0.61	88.9	
Tissue	finding, severity	¥	sqo ssolg	ervations >> Gross Free-Text Comments		
WHOLE BODY	NO LESIONS RECOGNIZED	COGNIZED	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
		¥	< Necropsy	# 6 B O S >>		
	Necropsy		-		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
No necropsy memos	memos recorded on animal	nìmal				
Tissue		ູ້ 🥆	sthotogy OSpecial histological	bservations comments	^	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
KIDNET	Nephrocalcinosis, Slight,	sis, Slight, Focal	al.			
ADRENAL GLANDS	S Vacuolar Change, Cortical		Cells, Mild, Multifocal.			
MES. LYMPH NOUE		Congestion and/or Hemorrhage of the Medulla,	of the Medulla, Slight	iht.		
SKIN	Folliculitis,	Folliculitis, Subacute, Slight, Multifocal	t, Multifocal.			
HAMMARY GLANDS	S Required protocol tissue		is missing.			
SKIN, ANTEBRACH.		Inflammation, Chronic, Mild. Hemorrhage, Mild. Folliculitis, Subacute, Slight, Multifocal.	t, Multifocal.			

REPORT
PATHOLOGY
cont.):
pendix I (
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LETTERMAN ARMY INSTITUTE OF REDIT OF BEINGP.	SEARCH	Individual Animal Data Dump Table Study Number: 83008M	PRINTED: 26-Oct-89 Page: 9
PRESIDIO OF SAN DOG/BEAGLE	94129	1	SUB-ACUTE/
Animal: 89A0002 Day of death: 15	00002 Sex: Male	Group: 3 Dose level: 20.0 ML/KG/day sacrifice Terminal body weight (kms): 10.95	20.0 ML/KG/day 10.95
1 is sue	Histopathologic diagnoses	pathology Observations >> // Special histological comments	
CEPHALIC VEIN	Endophlebitis, Slight.		
0.00	cost Ciliated or Kon-Ciliated, Mild.		

PATHOLOGY ANNEX B (cont.)

#### PATHOLOGY REPORT Appendix I (cont.):

LETTERMAN DIV OF RE	S SUP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	OF RESEA V GP	RCH S		Individual Anim Study Nu	Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-0ct-89 Page: 10
PRESIDIO O	OF SA	N FRANCISCO	, CA 941	62		Study Start	Study Start Date: 07-Feb-89		SUB-ACUTE/
Animal: 89 Day of death: 15	mat:	Animal: 89A00045 death: 15	Ste	Status: Final	ie nal sacrifice	1	Group: 3 Terminal	Dose level: Terminal body weight (kms):	20.0 ML/KG/day 11.10
Date		Day/week of Study	f Study	Organ Ma	**************************************	Absolute Organ	ights >> Relative X of Body Weight	Relative X of Brain Weight	Organ Status
28-Mar-89	68	8/05	; ; ; ;	LIVER		536.1	4.83	642.0	E 2
28-Mar-89	. 89	50/8		HEART		9.06	0.82	108.4	TO: T
28-Mar-89 28-Mar-89	- 89	50/8 50/8		BRAIN	SUN BE	83.5	0.75	1.75	
28-Mar-89 28-Mar-89	89	50/8 50/8		TESTIS		17.57 69.3	0.158 0.62	21.04 82.9	Lon
Tissue		Finding,	Finding, severity	<i>t</i>	L 9 >>	oss Obser Gros	Gross Free-Text Comments		
WHOLE BODY	, , , , , , , , , , , , , , , , , , ,	NO LESTO	NO LESIONS RECOGNIZED	GNIZED					
Tissue		Necropsy memos	y memos		Ÿ	* ecrops y	T o s o x		
No necrop	Sy me	No necropsy memos recorded on animal	d on ani		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		
Tissue			thologic	<< Histopathologic diagnoses	` ۵	l o g y histologica	Observations   comments	<b>^</b>	
PITUITARY GLAND	I GLAN		Cysts(s), Mild.	,	) 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Congestion and/or Memorrhage of the Medulla, Slight.

Required protocol tissue is missing.

Hepatocellular Vacuolation, Coarse Type, Moderate.

MES. LYMPH NODE MAMMARY GLANDS

LIVER

(cont.) Д PATHOLOGY ANNEX

REPORT
PATHOLOGY
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Appendix

LETTERMAN ARM	LETTERMAN ARMY INSTITUTE OF RESEARCH	ARCH .	Individual Anima Study Nur	Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-0ct-89 Page: 11
PRESIDIO OF SA	PRESIDIO OF SAN FRANCISCO, CA 94129	129	Study Start i	Study Start Date: 07-Feb-89		SUB-ACUTE/
Animal: Day of death:	89A00052 15	Sex: Male Status: Final sacrifice		Group: 3	Dose level: Terminal body weight (kms):	20.0 ML/KG/day 10.30
Date	Day/week of Study	Organ &	Organ We Absolute Organ Weight (gms)	ights >>> Relative % of Body Weight	Relative % of Brain Weight	Organ Status
29-Mar-89 29-Mar-89 29-Mar-89	51/8 51/8 51/8	LIVER LIDNEY HEART	381.8 48.0 86.4	5.71 0.05 0.84 0.84	442.8 55.7 100.3	High
29-Mar-89 29-Mar-89 29-Mar-89 29-Mar-89	5176 5178 5178 5178	ADRENAL GLANDS TESTIS SPLEEN	1.23 15.81 88.2	0.012 0.153 0.86	1.42 18.33 102.3	LOM
fissue	Finding, severity	< 6 r	oss Obse Gr	Gross Free-Text Comments	S	
WHOLE BODY	NO LESIONS RECOGNIZED	2ED				
fissue	Necropsy memos	Ÿ	Y N Q O L O 0 X	44 S O E 9 X		
No necropsy memos	memos recorded on anima(					
Tissue	<< P Histopathologic diagnoses	<pre></pre>	logy 0 histological	b s e r v a t i o n s comments	•	
BRAIN	Inflammation,	Inflammation, Subacute, Choroid Plexus, Mild	plexus, Mild.			
LIVER	Hepatocel lular	Hepatocellular Vacuolation, Coarse Type, Moderate	se Type, Moderate.			
MES. LYMPH NODE		Congestion and/or Hemorrhage of the Medulla,	the Medulla, Mild.			
SKIN	Required proto	Required protocol tissue is missing	ing.			
MAMMARY GLANDS	SS Required protocol tissue i	ocol tissue is missing	ìng.			

PATHOLOGY ANNEX B (cont.)

LETTERMAN ARM DIV OF RES SU	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	ARCH	Individual Animal Data Dump Study Number: 88008M	al Data Dump Table nber: 88008M		PRINTED: 26-Oct-89 Page: 12
PRESIDIO OF S. DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	129	Study Start [	Study Start Date: 07-Feb-89		SUB-ACUTE,
Animal: 89 Day of death: 15	A00018	Sex: Male Status: Final sacrifice		Group: 4 Termin	Dose level: Terminal body weight (kms):	12.0 ML/KG/day 13.15
Date	Day/week of Study	Organ Name	Organ We Absolute Organ Weight (gms)	ights >>> Relative 2 of Body Weight	Relative X of Brain Weight	Organ Status
22-Feb-89	16/3	LIVER	439.8	3.34	6.494	LOW
22-feb-89 22-feb-89	16/3	KIUNET HEART	91.8	0.70	9.76	High
22-Feb-89			9.76	0.72	100.0	
22-Feb-89	16/3	TESTIS	19.22	0.146	20.32	low
22-Feb-89		SPLEEN	45.5	0.35	48.1	
Tissue	Finding, severity	< 6 T	oss Obse	ervations >> Gross Free-Text Comments	83	
WHOLE BOOT	NO LESIONS RECOGNIZED	OGNIZED				
Tissue	Necropsy memos	*	Necropsy	X & S O E & X		
LYMPH NODES	L. RETROPHARYNGEAL L.N. HA	GEAL L.N. HAS BRIGHT	IT GREEN COLOR IN CRANIAL POLE	RANIAL POLE		
Tissue	** Histopathologic diagnoses	<pre></pre>	logy 0   histological	bservations comments	<b>^</b>	
LIVER	Hepatocellular Vacuolation,	lular Vacuolation, Coars	Coarse Type, Mild.			
CERVICAL LN	Miscellaneous. Green Pigment	Miscellaneous. Green Pigment in Macrophages, Mild	, p			
PARATHYROID	Required protocol tissue	col tissue not examined.	nined.			

LETTERMAN ARMY	ARMY INSTITUTE OF RESEARCH	APPen RESEARCH	•	Individual Animal Data Dump Study Number: 88008M	nal Data Dump Table		PRINTED: 26-( Page: 13	26-0ct-89 13
PRESIDIO OF SAN FRANCISCO, CA DOG/BEAGLE	SAN FRANCISCO, CA 94129	A 94129		Study Start Date:	Date: 07-Feb-89		BOS	SUB-ACUTE/
: : : : : : : : : : : : : : : : : : :	89A00048	Male Fina	sacrifice		Group: 4 Termin	Dose level: Terminal body weight (kms):	12.0 ML/KG/day 11.00	/day
Date	Day/week of Study	•		Organ We Absolute Organ Weight (gms)	ights >>> Relative % of Body Weight	Relative X of Brain Weight	Organ Status	
28-Mar-89 28-Mar-89	50/8	LIVER		372.3	3.38	501.0	30 40	
28-Mar-89 28-Mar-89 28-Mar-89 28-Mar-89	50/8 50/8 50/8 50/8	HEART BRAIN ADRENAL TESTIS	GLANDS	7.9.2 7.4.3 1.73 7.0 7.0	0.72 0.68 0.016 0.063	100.5 100.0 2.32 9.31	Exclude	
7.02 Tagr. 07	_		9	s q o	rvations os:Free-Text Comme			
TRACHEA	DEFORMED TR	DEFORMED TRACHEAL RING(S),	, Moderate	1 4 1 1 1 1 1	HYPOF LASTIC		; ; ; ; ; ; ; ;	• • • •
Tissue	Necropsy memos		*	Y S d o L o a X	^		1	
No necropsy memos	recorded	on animal	1 1 1 1 1 1					
Tissue	Histopathol	< F Histopathologic diagnoses	, ath /Speci	l o g y 0 histological	bs of vations comments	â		
TRACHEA	Cartilagino	Cartilaginous Hypoplasia,	Modera					
LIVER	Hepatocellu	Hepatocellular Vacuolation,	in, Coars	Coarse Type, Mild.				
PANCREAS	Acinar (Exc	Acinar (Exocrine) Cell Atr	rophy, M	ophy, Mild, Multifocal.				
THYMUS	Required pt	Required protocol tissue	is missing	ng.				
SKIN, ANTEBRACH.		Required protocol tissue	is missing	ng.				
CEPHALIC VEIN	Required p	Required protocol tissue	is missing	ng.				

Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARM DIV OF RES SU	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	EARCH		Individual Anima Study Num	Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-Oct-89 Page: 14
PRESIDIO OF S DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	4129		Study Start D	Study Start Date: 07-Feb-89		SUB-ACUTE/
Animal: 89 Day of death: 15	A00056	Sex: Male Status: Final	sacrifice	no.19	Group: 4 Terminal	Dose level: Terminal body weight (kms):	12.0 ML/KG/day 10.70
Date	Day/week of Study	:	<b>*</b>	Organ We Absolute Organ Weight (gms)	ghts >>> Relative X of Body Weight	Relative X of Brain Weight	Organ Status
29-Mar-89	51/8	LIVER		473.2	4.42	563.2	E 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
29-Mar-89		KIDNEY		73.5	0.00	115.6	E CO
20.1881.00	51/8	30 C A L C		84.0	0.79	100.0	
29-Mar-89		AL	GLANDS	1.58	0.015	1.89	
29-Mar-89				15.63	0.146	18.61	LOW
29-Mar-89		SPLEEN		59.6	0.56	6.07	
		¥	0	ss opse	servations >>		
Tissue	Finding, severity	rity		9.00	ss Free-Text Comment	8	
WHOLE BODY	NO LESIONS RECOGNIZED	COGNIZED					
			<b>2</b>	ecropsy	M e B O S >>		
Tissue	Necropsy memos	S		, , , , , , , , , , , , , , , , , , , ,			
No necropsy m	No necropsy memos recorded on animal	nimal					

PATHOLOGY ANNEX B (cont.)

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Anistopathologic diagnoses / Special histological comments

Hepatocellular Vacuolation, Coarse Type, Mild.

Inflammetion, Chronic, Slight.

SKIN, ANTEBRACH. CEPHALIC VEIN

Tissue

Endophlebitis, Mild.

REPORT
PATHOLOGY
(cont.):
Appendix I
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LETTERMAN ARMI DIV OF RES SUF	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	EAKCH	Study Number: 88008M	mber: 88008M		Page: 15
PRESIDIO OF SA DOG/BEALLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/Bealle	4129	Study Start	Start Date: 07-Feb-89		SUB-ACUTE/
Animai: Day of death:	89A0004 15	Sacri	1 1 1 1 1 1 1 1 1 1	Group: 5	Dose level: Bl body weight (kms):	16.0 ML 15.45
Date	of Stu	Organ Name	Absolute Organ	ights > Relative X Body Weigh	Relative X of Brain Weight	Organ Status
21. Fab. 89	15/3	LIVER	551.5	3.57	58.1	
21 · Feb · 89	15/3	KIDNEY	71.4	9.46	85.2	
21.Feb.89	15/3	HEART	128.0	0.83	152.7	ng: H
21 · i eb · 89	15/3		83.8	4.00	180.0	
21-Feb-89	15/3	ACKENAL GLANUS	28.02	0.181	33.44	LOW
21.Feb.39	15/3	SPLEEN	82.4	0.53	98.3	
Lissue	Finding, severity	<. Gr	s q 0	Gross Free-Text Comments	, ts	
WHOLE BUDY	NO LESIONS RECOGNIZED	COGNIZED	* · · · · · · · · · · · · · · · · · · ·			
		Ÿ	N e c r o p s y	Memos >>		
Tissue						
No necropsy memo	No necropsy memos recorded on animal	animal				
Tissue	Histopatholog	Pa es/	logy 0 histological	bservations comments	^	
BRALK	Inflammation, Subacute, Hemorrhage, Acute, Sligh	, Subacute, Choroid Plexus, Acute, Slight, Focal.	Mild, Foc			
PITUITARY GLAND	ND Cysts(s), Slight.	ight,				
LIVER	Hepatocellular Vacuolat	ar Vacuolation, Coar	ion, Coarse Type, Mild.			
PANCREAS	Acinar (Exocrine) Cell	Atrophy,	Slight.			
ADRENAL GLANDS		Vacuolar Change, Cortical Cells,	, Mild.			
MES. LYMPH NODE		Congestion and/or Hemorrhage of	the Medulla, Mild.			
HAMMARY GLANDS	is Required protocol tissue	is	missing. PATHOLOGY ANNEX	B (cont.)		

		· / · · · · · · · · · · · · · · · · · ·				
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	STITUTE OF RESEARC		Individual Animal Data Dump Table Study Number: 88008M	Dump Table		PRINTED: 26-Oct-89 Page: 16
PRESIDIO OF SAN PRANCISCO, LA VAILA DOG/BEAGLE	ANCISCO, CA 94 129		Study Start Dute: 07-Feb-89	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SUB-ACUTE/
Animal: 89A00004 Sex: Male Day of death: 15 Status: Fina	10004 Status	Sex: Male Status: Final sacrifice	Group: 5 Terminal body weight (kms): 15.45 Terminal body weight (kms): 15.45	Terminal body	Dose level: Terminal body weight (kms):	16.0 ML/KG/day 15.45
Tassue Histopathologic diagr	H) stopathologic d			ations >>		
	folliculitis, Subacute,	acute, Mild, Focal.				

Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY DIV OF RES SUPP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	RC#	Individual Animal Data Dump Study Number: 88008M	l Data Dump Table ber: 88008M		PRINTED: 26-Oct-89 Page: 17
PRESIDIO OF SAN DOG/BEAGLE	SAN FRANCISCO, CA 94129	59	Study Start D	Start Date: 07-Feb-89		SUB-ACUTE/
= = =		- I	Group: 5	p: 5 Terminal body	Dose level:   body weight (kms):	16.0 ML/KG/day 13.05
	Day/week of Study	y Organ Name	Organ We Absolute Organ Weight (gms)	ights '> Relative X of Body Weight	Relative % of Brain Weight	Organ Status
22-Feb-89	16/3	LIVER	373.1	2.86	9.494	LOW
22-Feb-89 22-Feb-89	16/3 16/3	KIDNEY Heart	65.8 103.8	0.80 0.80	129.3	High
22-Feb-89	16/3	BRAIN ADDENA! GLANDS	80.3	0.62	1,00.0	
22 · Feb - 89	2/01		14.39	0.110	17.92	Low
	,	9 >>	esqo sso	ryations >>		
Lissue				ss Free-Text Comments	S	
WHOLE BODY	NO LESIONS RECOGNIZED	GNIZED				
7188U@	Necropsy memos		месгорзу	женоs >>		
No necropsy memo	No necropsy memos recorded on animal	imal				
fissue	* Histopathologic diagnoses	٠ _	o t o g y 0 ial histological	b servations comments	^	
LIVER	Hepatoceliular Vacuolatio	Hepatocel, ular Vacuolation, Coarse Type, Extramedullary Hematopoiesis, Slight, Mul	se Type, Slight. ight, Multifocal.			
MAMMARY GLANDS	Required protocol tissue	col tissue is missing	ing.			
SKIN, ANTEBRACH.	<ol> <li>Inflammation, Chronic, Hemorrhage, Moderate.</li> </ol>	Chronic, Mild, Focal derate.	. 94.			
CEPHALIC VEIN	Endophlebitis, Mild.	Mild.				

PATHOLOGY ANNEX B (cont.)

#### PATHOLOGY REPORT Appendix I (cont.):

		•					100	24-064-80
DIV OF RES SUP	ISTTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	IRCH		Individual Animal Data Dump Study Number: 88008M	it bata bump lable ber: 88008M			16
PRESIDIO OF SAI DOG/BEAGLE	SAN FRANCISCO, CA 94129	129		Study Start Date:	late: 07-Feb-89			SUB-ACUTE/
Animal: (	89A00046	Sex: Male Status: Final	sacrifice	t , , , , , , , , , , , , , , , , , , ,	Group: 5 Terminal body	Dose level: body weight (kms):	16.0 M	/KG/day
	Day/week of Study	Organ Ma		Organ We Absolute Organ Weight (gms)	ights >>> Relative % of Body Weight	Relative % of Brain Weight	Organ Status	
28-XBT-89 28-XBT-89 28-XBT-89	50/8	LIVER KIDNEY HEART	:	457.4 51.6 88.8	4.12 0.46 0.80	583.8 65.8 113.3	т Сер :	
28-mar-89 28-mar-89 28-mar-89 28-mar-89	\$/05 3/05 3/05	ADRENAL TESTIS SPLEEN	GLANDS	1.38 19.74 83.9	0.012 0.178 0.76	1.77 25.19 107.1	, row	
lissue	4			oss Obse Gro	Gross Free-Text Comments		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,
WHOLE BODY	NO LESIONS RECOGNIZED	RECOGNIZED	1 t t t t					
Tissue	Necropsy memos		¥	Necropsy	Te = 0 S >>			
No necropsy memos	mos recorded on anima	imal						
Tissue	Wistopathologic diagnoses	c diagnoses	Path / Speci	o t o g y 0 at histological	bservations comments			
BONE MARROW	Required protocol tissue is missing	of tissue	is missi	· 6u				
LIVER	Hepatocellular Vacuolati	Vacuolatic	on, Coars	Coarse Type, Mild.				
KIDNEY	Inflammation, Interstit		al, Subacute,	ute, Slight, Focal.				
MAMMARY GLANDS	Required protocol tissue	sol tissue	is missing	.6Ն				
DUODENUM	Cyst, Glandular, Mucosal	_	, Slight, Focal	Focal.				

PATHOLOGY ANNEX B (cont.)

Inflammation, Chronic, Moderate. Hemorrhage, Moderate.

SKIN, ANTEBRACH.

LETTERMAN ARMY INSTITUTE OF RIDIN OF RES SUPP, PATH SERV GP	DIV OF RES SUPP, PATH SERV GP		Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-Oct-89 Page: 19
PRESIDIO OF SAN P DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94169 DOG/BEAGLE		Study Start Date: 07-Feb-89		SUB-ACUTE/
Animal: 89A00046 Day of death: 15	A00046	Sex: Male Status: Final sacrifice	Group: 5 Terminal	Dose level: Terminal body weight (kms):	16.0 ML/KG/day 11.10
Tissue	7 Nissue Histopathologic diagnoses	<pre></pre>	Pathology Observations >> / Special histological comments		
CEPHALIC VEIN	Endophlebitis, Mild.	• •			

#### PATHOLOGY REPORT Appendix I (cont.):

LETTERMAN ARM DIV OF RES SU	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	ARCH	Individual Animal Data Dump Study Number: 88008M	nal Data Dump Table umber: 88008M		PRINTED: 26-Oct-89 Page: 20
PRESIDIO UP S DOG/BEAGLE	۲۵, د <del>۷</del>		Study Start		,	
Animal: 89 Day of death: 15	A00007	Male Final sacrif	19	Group: 6 Terminal	Dose level: body weight (kms):	20.0 ML/KG/day 11.95
Date	Day/week of Stu	•	Organ M Absolute Organ Weight (gms)	e i g h t s >> Relative X of Body Weight	Relative % of Brain Weight	Organ Status
21.Feb.80	15/3	IVER	528.8	27.7	521.0	High
21 - Feb - 89	15/3	K 10 2 E Y	54.6	0.45	53.8	:
21-Feb-89	15/3	HEART	93.1	0.78	7.16	Figh
21-Feb-89	15/3	BRAIN	101.5	0.85	100.0	
21-Feb-89	15/3	ADRENAL GLANDS	1.33	0.011	1.31	
21-feb-89	15/3	TESTIS	15.38	0.129	15.15	LOW
21-Feb-89	15/3	SPLEEN	39.4	0.33	38.8	
Tissue	Finding, severity	** 6 F	) S Q D S S O	ervations >> ross Free-Text Comments		
WHOLE BODY	NO LESIONS RECOGNIZED	OGNIZED				1
		*	Necropsy	* * * * * * * * * * * * * * * * * * *		
I I SSUR	Mecropsy memos					
		E) 1N	<u>x</u>			
7 i ssue	Histopathologic diagnoses	<pre></pre>	l o g y 0 histological	bservations comments	^	
BONE MARROW	Required protocol tissue	s	ng.			
PITUITARY GLAND	ND Cysts(s), Slight.	Jht.				
TONSIL(S)	Hemorrhage/Congestion, Sl	gestion, Slight.				
LIVER	Hepatocellular	Hepatocellular Vacuolation, Coarse Type,	e Type, Moderate.			
HES. LYMPH NODE	IDE Required protocol tissue	ocol tissue is missing	. 6u			
SKIN	Folliculitis, Subacute, Sl	Subacute, Slight.				
HAMMARY GLANDS	S Required protocol tissue	.1.	missing.  PATHOLOGY ANNEX	B (cont.)		
				•		

REPORT
PATHOLOGY
(cont.):
ppendix I
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LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	STITUTE OF RESE/ PATH SERV GP		Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-Oct-89 Page: 21
PRESIDIO OF SAN FPANCISCO, CA 94129 DOG/BEAGLE	PANCISCO, CA 941		Study Start Date: 07-Feb-89	Study Start Date: 07-Feb-89	SUB-ACUTE/
Animal: 89A00007 Sex: Male Day of death: 15 Status: Final	00007	, ,	Group: 6	Group: 6 Terminal body weight (kms): 11.95	20.0 ML/KG/day 11.95
Tissue Histopathologic diagnoses	Histopathologic diagnoses		athology Observations >>/Special histological comments	athology Observations >> / Special histological comments	
SKIN, ANTEBRACH.	Inclammation, Chronic, SI Hemorrhage, Mild.	•			

Endophlebitis, Mild.

CEPHALIC VEIN

Study Start Date: 07-Feb-89   Study Start Date: 07-Feb-89   Study Start Date: 07-Feb-89   Study Start Date: 07-Feb-89   Study Start Date	LETTERMAN ARM DIV OF RES SU	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	SEARCH	Individual Anim Study Nu	Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-Oct-89 Page: 22	Oct - 89
Absolute Organ Weight (kms):  **C Organ Weight stative X of Relative X of Absolute Organ Relative X of Relative X of Organ Name Weight (gms) Body Weight States of Study Organ Name Weight (gms) Body Weight States Name Weight (gms) Body Weight States Name Weight (gms) Body Weight States Name Weight (gms) Body Weight States Name Weight (gms) Body Weight States Name Weight (gms) Body Weight States Name Weight (gms) Body Weight States Name Weight (gms) Body Weight Brain Weight States Name Name Name Name Name Name Name Name	PRESIDIO OF S DOG/BEAGLE	AN FRANCISCO, CA	94129	Study Start	Date: 07-Feb-89		- 8US	-ACUTE/
Solution   Solution	Animal: Day of death:	89A00050 15	•	1	1	Dose level: body weight (kms):	·	/day
89 50/8 LIVER 464.1 3.87 500.5 89 50/8 KIDNEY 59.1 0.49 63.7 89 50/8 HEART 87.4 0.73 94.2 89 50/8 BRAIN 92.7 0.77 100.0 89 50/8 ADRENAL GLANDS 2.68 0.022 2.90 89 50/8 TESTIS 19.30 0.161 20.81 89 50/8 SPLEEN 77.4 0.64 83.4 89 50/8 SPLEEN 77.4 0.64 89 50/8 SPLEEN 77.4 0.64 83.4 NO LESIONS RECOGNIZED	Date	Day/week of Stu	:	Organ Absolute Organ Weight (gms)	· · <del>-</del>	Relative % of Brain Weight	Organ Status	
89 50/8 HEAT 87.4 0.47 05.7 89 50/8 BRAIN 92.7 0.77 100.0 89 50/8 ADRENAL GLANDS 2.68 0.022 2.90 89 50/8 TESTIS 19.30 0.161 20.81 89 50/8 SPLEEN 77.4 0.64 83.4 Finding, severity Gross free Text Comments  NO LESIONS RECOGNIZED	28-Mar-89	50/8	LIVER	464.1	3.87	500.5		
89 50/8 BRAIN 92.7 0.77 100.0 89 50/8 ADRENAL GLANDS 2.68 0.022 2.90 89 50/8 TESTIS 19.30 0.161 20.81 89 50/8 SPLEEN 77.4 0.64 83.4 83.4 Finding, severity NO LESIONS RECOGNIZED  ** G r o s s 0 b s e r v a t i o n s >>   Gross Free-Text Comments  ** N e c r o p s y M e m o s >>   Necropsy memos	28-Mar-89 28-Mar-89	50/8	KIDNEY HEART	87.4	0.73	94.2	High	
89 50/8 ADRENAL GLANDS 2.68 0.022 2.90 89 50/8 TESTIS 19.30 0.161 20.81 89 50/8 SPLEEN 77.4 0.64 83.4  * Gross free-Text Comments  **NO LESIONS RECOGNIZED**  **Necropsy memos**  **Necrop	28-Mar-89	50/8	BRAIN	92.7	0.77	100.0		
89 50/8 TESTIS 19.30 0.161 20.81 89 50/8 SPLEEN 77.4 0.64 83.4  < G C O S S O D S E C V a t i O N S >> Finding, severity  NO LESIONS RECOGNIZED  < N e C C O D S Y M e m O S >>  Necropsy memos	28-Mar-89	50/8			0.022	2.90		
89 50/8 SPLEEN 77.4 0.64  * Gross Observations >> Finding, severity  NO LESIONS RECOGNIZED  * Necropsy memos	28-Mar-89	50/8			0.161	20.81	Low	
Finding, severity  NO LESIONS RECOGNIZED  ** Necropsy memos	28-Mar-89	8/05	SPLEEN	77.4	79.0	83.4		
Finding, severity  NO LESIONS RECOGNIZED  ** N e c r o p s y  Necropsy memos			ÿ	ross Obs	rvations			
NO LESIONS RECOGNIZED  <	Tissue	Finding, sev	erity	9	oss Free-Text Comments			
Vecropsymemos Necropsymemos	WHOLE BODY	NO LESIONS R	ECOGNIZED	· · · · · · · · · · · · · · · · · · ·				
Necropsy memos			Š	S CI O L U S	9 E			
	Tissue	Necropsy mem	501					

Inflammation, Interstitial, Subacute, Slight, Focal. Hepatocellular Vacuolation, Coarse Type, Mild.

^

A at ions of the logy of the logy of the log of the stopsthological comments of the stopsthological comments of the stopsthological comments.

Crypt Abscess, Slight.

Tissue -------TONSIL(S)

LUNGS

ADREMAL GLANDS Vacuolar Change, Cortical Cells, Slight.

MES. LYMPH NODE Congestion and/or Hemorrhage of the Medulla, Slight.

SKIN, ANTEBRACH. Hemorrhage, Moderate. Folliculitis, Subacute, Slight, Multifocal.

## PATHOLOGY REPORT

		Appendix i (cont.): Fainches intient	(cont.)	FAIRODOST	Wei out		
LETTERMAN ARMY INSTITUTE OF RED DIV OF RES SUPP, PATH SERV GP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP		Individual Anim Study Nu	Individual Animal Data Dump Table Study Number: 88008M	•		PRINTED: 26-Oct-89 Page: 23
PRESIDIO OF SAN DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle		Study Start	Study Start Date: 07-Feb-89		) 1 1 1 1	SUB-ACUTE/
Animal: 89A00050	100050	Sac	1 1 1 1 1	Group: 6 Term	Dose level: Terminal body weight (kms):	Dose level: iight (kms):	20.0 ML/KG/day 12.00
	•	<pre></pre>	q 0	Pathology Observations >>	**	· · · · · · · · · · · · · · · · · · ·	
Tissue	Histopathologic diagnoses	ignoses / Special	/ Special histological comments	mments			/ Special histological comments
CEPHALIC VEIN	Endophlebitis, Moderate.	rate.					

#### PATHOLOGY REPORT (cont.): H Appendix

LETTERMAN ARM DIV OF RES SU	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	ROH	Individual Anim Study Nu	Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-Oct-89 Page: 24
PRESIDIO OF S. DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	621	Study Start	Study Start Date: 07-feb-89		SUB-ACUTE/
Animal: 89 Day of death: 15	A00051	Sex: Male Status: Final sacrifice	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Group: 6 Termina	Terminal body weight (kms):	20.0 ML/KG/day 9.80
Date	Day/week of Scudy	Organ Name	Organ We Absolute Organ Weight (gms)	e i g h t s -> Relative X of Body Weight	Relative % of Brain Weight	Organ Status
20.149.90	51/8		516.8	5.27	584.0	High
20 Mar 80	51/8	K I D K I	60.5	0.62	68.3	High
20 - Rail - 20	51/8	HEARI	80.5	0.82	6.06	High
20 Mar - 89		N W	88.5	06.0	100.0	
20-Mar-89		ADREMAL GLANDS	1.23	0.013	1.39	
29-Mar-89	51/8		14,33	0.146	16.20	Low
29-Mar-89	51/8	SPLEEN	74.3	0.76	83.9	
		. 9	oss obse	Observations >>		
Tissue	Finding, severity	ity	19	Gross Free-Text Comments	S	
WHOLE BOOT	NO LESIONS RECOGNIZED	DGNIZED	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
		ř	Necropsy	Mercos >>		
Tissue	Necropsy memos				6 C C C C C C C C C C C C C C C C C C C	
No necropsy m	No necropsy memos recorded on animal	imal				

A Pathology Observations Histopathologic diagnoses / Special histological comments Inflammation, Subacute, Choroid Plexus, Slight.
Hemorrhage, Acute, Mild.
Hemosiderin in Macrophages, Mild, Focal.
/The hemorrhage is in the choroid plexus of the 4th ventricle Tissue BRAIN

^

Inflammation, Interstitial, Subacute, Mild, Multifocal.

Hepatocellular Vacuolation, Coarse Type, Mild.

Required protocol tissue is missing. MAMMARY GLANDS

LIVER

LUNGS

Inflammation, Chronic, Moderate. Hemorrhage, Moderate. SKIN, ANTEBRACH.

(cont.) Ø PATHOLOGY ANNEX

REPORT
PATHOLOGY
(cont.):
Appendix I

LETTERMAN ARMI	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP	IRCH	Individual Animal Data Dump Study Number: 88008M	ial Data Dump Table imber: 88008M		PRINTED: 26-Oct-89 Page: 25
PRESIDIO OF SA DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	129	Study Start Date:	Date: 07-Feb-89		SUB-ACUTE/
Animal: 89A00019 Day of death: 15	•	Sex: Male Status: Final sacrifice	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Group: 7 Terminal	Dose level: Terminal body weight (kms):	12.0 ML/KG/day 14.65
	of Stu	Organ Mane	Organ We Absolute Organ Weight (gms)	rights >> Relative X of Body Weight	Relative % of Brain Weight	Organ Status
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1 789	High
22-Feb-89		LIVER	4, 160 80 0	- C - C - C - C - C - C - C - C - C - C	8.08	TO: H
22-Feb-89	16/3	KIUNET	106.1	0.72	115.0	нідр
22-Feb-89		- X X 2 C C C C C C C C C C C C C C C C C	92.3	0.63	100.0	
22-1-23		ADRENAL GLANDS	1.76	0.012	1.91	
22-feb-89			18.36	0.125	19.89	LOW
22-Feb-89	16/3	SPLEEN	79.3	0.54	85.9	
Tissue	Finding, severity	*	sq0 sso	ervations >> Gross free-Text Comments		
						1 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
WHOLE BORY	NO LESIONS RECOGNIZED	JGN 1 ZED				
		÷	Necropsy	* SOE 9 X		
Tissue		,				
LYMPH NODES	L. RETROPHARYNGEAL L.N.	GEAL L.N. HAS BRIGHT	GREEN COLOR IN	CRANIAL POLE		
en se c	<< Histopathologic diagnose	<pre></pre>	ology O ie'histological	bservations comments	<b>^</b>	
LIVER	Hepatocellular Vacuolati	on, es is	Coarse Type, Mild.			
KIDNEY	Wephrocalcinosis, Slight Proteinaceous Casts, Sli		ght, Multifocal.			
PANCREAS	Acinar (Exocrin	Acinar (Exocrine) Cell Atrophy,	Moderate, Diffuse.			
MES. LYMPH NO	NODE Congestion and/or Hemorrh Sinus Weutrophicia, Mild.	Congestion and/or Hemorrhage of Sinus Weutrophicia, Mild.	the Medulla, Mild.			
MAMMARY GLANDS	IS Required protocol tissue	col tissue is missing	ing.			

#### PATHOLOGY REPORT Appendix I (cont.):

LETTERMAN ARMY INSTITUTE OF RED OT OF RES SUPP, PATH SERV GP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	Individual Animal Data Dump Table Study Number: 88008M	PRINTED: 26-Oct-89 Page: 26
PRESIDIO OF SAN DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	Study Start Date: 07-Feb-89	SUB-ACUTE/
Animal: 89A00019 Day of death: 15	Animal: 89A00019 Sex: Male	Mate Group: 7 Terminal body weight (kms): 14.65 Final sacr ce	wet: 12.0 ML/KG/day ms): 14.65
Tissue	Tissue Histopathologic diagnoses / Spe	hology Observations >> cial histological comments	
JEJUNUM	Enteritis, Acute, Slight,		
CERVICAL LN	Miscellaneous. Green Pigment in Macrophages, Slight.	crophages, Slight.	

Required protocol tissue is missing.

PARATHYROID

REPORT
PATHOLOGY
(cont.):
Appendix I

LETTERMAN ARMY DIV OF RES SUP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	ARCH	Individual Animal Data Dump Study Number: 88008M	ial Data Dump Table mber: 88008M		PRINTED: 26-Oct-89 Page: 27
PRESIDIO OF SA DOG/BEAGLE	SAN FRANCISCO, CA 94129	129	Study Start	Study Start Date: 07-Feb-89		SUB-ACUTE/
Animal: Day of death:	89A00043	Fin	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Group: 7 Terminal	Dose level:   body weight (kms):	12.0 ML/KG/day 10.80
Oste	Day/week of Study	Organ Nam	3 5	Rel Bo	ع ت	Organ Status
21-Feb-89	15/3	LIVER	429.3	3.97	586.5	
21-Feb-89	15/3	KIDNEY	6.79 0.86	0.91	133.9	H igh
21-feb-89	15/3		73.2	0.68	100.0	
21-Feb-89	15/3	ADRENAL GLANDS	1.45	0.013	1.98	70
21-Feb-89 21-Feb-89	15/3 15/3	TESTIS	16.58 128.2	1.19	175.1	<b>!</b>
Tissue		< 6 r	9	Gross Free-Text Comments	Ø	
WHOLE BODY	NO LESIONS RECOGNIZED	OGNIZED	1			
		Ÿ	k e c r o p s y	The second secon		
Tissue				1		
No necropsy memos	recorded	imal				
Tissue	<< P	_	togy 0b histological co	bservations comments	^	
HEART	Endocarditis, Valvular, Sl	Valvular, Slight.	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;			
LUNGS	Inflammation, Interstitial	Interstitial, Subac	, Subacute, Mild, Focal.			
LIVER	Hepatocellular Inflammation,	Hepatocellular Vacuolation, Coarse Type, Mild. Inflammation, Subacute Slight, Multifocal.	se Type, Mild. Multifocal.			
PANCREAS	Acinar (Exocri	Acinar (Exocrine) Cell Atrophy, Slight, Focal	Slight, Focal.			
SPLEEN	Hemorrhage, Acute, Mild.	ute, Mild.				
MES. LYMPH NODE	DE Sinus Meutrophilia, Slight	ilia, Slight.				

LETTERMAN ARMY INSTITUTE OF RI	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP	RCH		Individual Animal Data Dump Study Number: 88008M	l Data Dump Table ber: 88008M		PRINTEL: 26-Oct-89 Page: 28
PRESIDIO OF SAN	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	59		Study Start Date:	ate: 07-Feb-89		SUB-ACUTE/
	A00054		sacrifice	Group: 7	p: 7 Terminal body	Dose tevel:   body weight (kms):	12.0 ML/KG/day 13.30
	Day/week of Study	y Organ Name	: : :	Organ We Absolute Organ Weight (gms)	ights >> Relative X of Body Weight	Retative % of Brain Weight	Organ Status
29-14-89 29-14-89 29-14-89 29-14-89	51/8 51/8 51/8 51/8	LIVER KIONEY HEART BRAIN		535.2 69.8 111.3 88.0	0.84	208.4 79.4 79.4 126.5 100.0	f ō · H
29-mar-89 29-mar-89 29-mar-89	51/8 51/8 51/8	S N	GLANDS	0.95 16.80 112.7	0.007 0.126 0.85	1.08 19.10 128.1	LOW
, ssue	finding, severity	t <b>,</b>	9	oss Obse Gro	ervations >> ross Free-Text Comments	5	
WHOLE BODY	NO LESTONS RECOGNIZED	GNIZEO		, ,	^^ © E 4		
Tissue	Necropsy memos	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,	6			
No necropsy mem	No necropsy memos recorded on animal	mal					
<b>a</b> u	Kistopathologic diagnose	`` ۵	atho Special	i o g y 0 histological	bservations comments	•	
LIVER		Vacuolation,	Coars	e Type, Mild.			
MES. LYMPH NODE		or Hemorrhag	le of ti	Congestion and/or Hemorrhage of the Medulla, Slight.			
MAMMARY GLANDS	Required protocol tissue		is missing	. 6 -			
SKIN, ANTEBRACH.	. Inflammation, Chronic, Mild.	thronic, Mild	<u></u> :				
CEPHALIC VEIN	Endophlebitis, Slight.	Slight.					

REPORT
PATHOLOGY
(cont.):
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App

LETTERMAN ARMY	LETTERMAN ARMY INSTITUTE OF RESEARCH	RCH	Individual Animal Data Dump Study Number: 88008M	hal Data Dump Table Imber: 88008M		PRINTED: 26-Oct-89 Page: 29
PRESIDIO OF SA DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	59	Study Start			SUB-ACUTE/
1 - 5	Sta	Sex: Male Status: Final sacrifice	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Group: 8 Terminal	Dose level: Terminal body weight (kms):	16.0
	av/week of Study	Organ Name	Organ We Absolute Organ Weight (gms)	ights >> Relative X of Body Weight	֓֞֝֝֝֓֞֝֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	Organ Status
ייייי		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	• • • • • • • • • • • • • • • • • • • •
21-Feb-89	15/3	LIVER	716.9	4.86	863.7	£61.1
21-Feb-89	15/3	KIDNEY	9.48	0.57	V. 101	
21-Feb-89	15/3	HEART	121.1	0.82	A. 049.	250 E
21-Feb-89	15/3		83.0	0.56	0.001	
21-Feb-89	15/3	ADRENAL GLANDS	1.86	0.013	2, 27	7
21-Feb-89	15/3	TESTIS	28.53	50.0	74.5	•
21-Feb-89	15/3	SPLEEN	179.6	1.22	* 01.7	
		. 9	SqO sso			
Tissue	Finding, severity	ty				
WHOLE BODY	NO LESIONS RECOGNIZED	GNIZED				
		¥	Necropsy	X		
Tissue						
No necropsy memos	emos recorded on animal	mal				
Tissue	<< Histopathologic diagnose	<pre></pre>	ology 0 al histological	bservations comments	^	
LUNGS	Thrombosis, Slight, Foca Inflammation, Interstiti	Slight, Focal. n, Interstitial, Subacute,	cute, Slight, Multifocal	ifocal.		
LIVER	Inflammation, Subacute,	Slight,	Focal.			
THYMUS	Ultimobranchia	l Cyst, Ciliated o	Ultimobranchial Cyst, Ciliated or Non-Ciliated, Slight.	ight.		
MES, LYMPH NODE		Congestion and/or Hemorrhage of the Medulla, Mild Sinus Neutrophilia, Slight.	tie Medulla, Mild.			
MAMMARY GLANDS		Required protocol tissue is missing	ing.			
JEJUNUM	Enteritis, Acute, Slight,	te, Slight, Focal.				

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	STITUTE OF REPAIN SERV GP		Individual Animal Data Dunp Table Study Number: 88008M		PRINTED: 26-0ct-89 Page: 30
PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	RANCISCO, CA	94129	Study Start Date: 07-Feb-89	, , , , , , , , , , , , , , , , , , , ,	SUB-ACUTE/
Animal: 89A000(1 Sex: Mal	00001	Status: Final sacrifice	Animal: 89A000(1 Sex: Male Group: 8 Terminal body weight (kms): 14.75	Dose Level: Terminal body weight (kms):	16.0 ML/KG/day 14.75
Tissue	Histopathold	A) Stopathologic diagnoses / Special histological comments	Pathology Observations >> .es/Special histological comments	•	
SKIN, ANTEBRACH.	Inflammation, Chronic,				

CEPHALIC VEIN Endophlebitis, Mild.

LETTERMA DIV OF R	N ARMY	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	SEARCH	Individual An Study (	Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-0ct-89 Page: 31
PRESIDIO O	OF SA	°00,		Study Start Date:	t Date: 07-Feb-89		
. 6	imal: leath:	• • •	Male Final		Group: 8 Terminal	Dose level: body weight (kms):	16.0 ML/KG/day 12.65
Det	te	Date Day/week of Study	tudy Organ Name	<pre>&lt;&lt; 0 r g a n Wassolute Organ Weight (gms)</pre>	leignts >> Relative X of Body Weight	Relative X of Brain Weight	Organ Status
- 22-Fe	80 - 80	16/3	LIVER	435.9	3.45	481.7	
22-Fe	68-9	16/3	KIDNEY	59.3	0.47	65.5	
22-ře	55-89	16/3	HEART	92.7	0.73	102.4	High
22-Fe	68-q	16/3			0.72	100.0	
22-Fe	99-9	16/3	ADRENAL GLANDS		0.014	1.97	
22-Feb-89 22-Feb-39	66-89 10-89	16/3 16/3	TESTIS	104.7	0.83	115.7	901881 <b>K</b>
Tissue		Finding, severity	¥	sqo ssolg	ervations >> Gross free-Text Comments		
WHOLE BODY		NO LESIONS RECOGNIZED	COGNIZED				
Tissue				* * ecrops Y	Tegos >>		
No necropsy memos	psy me	emos recorded on animal	nimal			, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Tissue			٠.	ology O elhistological	bservations; comments	•	
LIVER		Hepatocellular Vacuolatic		n, Coarse Type, Mild.			
PROSTATE	•••	Interstitial Lymphocyte	-	nfiltration, Slight, Focal	al.		
TESTIS		Required protocol tissue		is missing.			
EPIDIDYMUS	ıns	Required protocol tissue	.c	missing.			
THYMUS		Required protocol tissue		missing.			
MAHMARY GLANDS	GLANDS	S Required protocol tissue	<u></u>	missing.			
PARATHYROLD	9101	Required protocol tissue	is	PATHOLOGY ANNEX	X B (cont.)		

LETTERMAN ARMY DIV OF RES SUF	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	EARCH	Individual Anima Study Num	Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-Oct-89 Page: 32
PRESIDIO OF SA DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/Beagle	14129	Study Start D	Study Start Date: 07-Feb-89		SUB-ACUTE/
: ===	A00053	Sex: Male Status: Final sacrifice	6	Group: 8 Terminal	Dose tevel: Terminal body weight (kms):	16.0 ML/KG/day 11.70
Date	Day/week of Study	:	Organ We Absolute Organ Weight (gms)	ights >>> Relative X of Body Weight	Relative X of Brain Weight	Grgan Status
29-Mar-89	51/8		7.967	4.24	7.72	£ 6
29-Mar-89	51/8	KIDNEY	8.7%	79.0	111.5	- E
29-Mar-89	51/8	- X & CC	7.98	72.0	100.0	
29-Mar-89	51/8	ADRENAL GLANDS	1.41	0.012	1.63	
2°-Mar-89	51/8	TESTIS	23.96	0.205	27.73	LOW
25-Mar-89	51/8	SPLEEN	94.1	0.80	108.8	
		2 9 >>	sq0 sso	rvations >>		
Tissue	finding, severity	erity	20	Gross Free-Text Comments		
WHOLE BODY	NO LESIONS RECOGNIZED	COGNIZED				
		¥	We cropsy	Tenos >>		
Tissue	Necropsy memos	SC				
No necropsy m	No necropsy memos recorded on animal	animal				
Tissue	Histopathologic diagnos	<pre></pre>	l o g y 0 histological	bservations comments	^	
P TUITARY GLAND	ND Cysts(s), Slight.	ght.	, , , , , , , , , , , , , , , , , , ,			
LIVER	Hepatocelluli	Hepatocellular Vacuolation, Coarse Type, Slight.	se Type, Slight.			
MES. LYMPH NODE	DE Congestion and/or Hemor	d∕or Kemorrhage of	rhage of the Medulla, Mild.			
FAMMARY GLANDS	S Required protocol tissu	tocol tissue is missing	ing.			

LETTERMAN ARMY DIV OF RES SUP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP	EARCH .	Individual Animal Data Dump Study Number: 88008M	mai Data Dump Table umber: 88008M		PRINTED: 26-Oct-89 Page: 33
PRESIDIO OF SA DOG/BEAGLE	PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	4129	Study Start	Start Date: 07-Feb-89		SUB-ACUTE/
Animal: Day of death:	89A00005		9	Group: 9 Terminal	Dose level: Terminal body weight (kms):	20.0 ML/KG/day 13.05
Date	Day/week of Study	organ Name	Absolute Organ Weight (9ms)	e i g h t s -> Relative % of Body Weight	Relative % of Brain Weight	Organ Status
21-Feb-89	15/3	LIVER	565.6	4.33	635.5	HQ: H
21-Feb-89	15/3	KIDNEY	81.9	0.63	92.0 111.5	
21-Feb-89	15/3	TEART Robert	7.66 0.68	0.0 0.68	100.0	: n -
21-6-6-89	15/3	ADRENAL GLANDS	1.94	0.015	2.18	
21-Feb-89	15/3		30.09	0.231	33.81	Low
21-Feb-89	15/3	SPLEEN	102.5	67.0	3.61	
9	Finding, severity	•	s q 0 s s o	Gross Free-Text Comments		
KIDNEY	FRIBROUS SCAR	SCAR(S), Moderate	<b>ao</b>	BILATERAL		
Tissue	Mecropsy memos	× × ×	Necropsy	*		
No necropsy memo	No necropsy memos recorded on anima?	nimal	1	1		
	<< Histopathologic diagnoses	<pre></pre>	ology alhistological	bservations comments	•	
BONE MARROW	Required protocol tissue	ocol tissue is missing	ing.	* * * * * * * * * * * * * * * * * * *		
PITUITARY GLAND	ND Required protocol tissue	ocol tissue is missing	ing.			
LIVER	Hepatocellula Extramedullar	Hepatocellular Vacuo!ation, Coarse Ty Extramedullary Hematopoiesis, Slight.	Coarse Type, Moderate. ,, Slight.			
KIDNEY	Inflammation, Infarct, Mild	Inflammation, Interstitial, Subacute, Infarct, Mild, Focal, Subacute.	icute, Mild.			
PROSTATE	Inflammation, subacute,		Moderate, Multifocal.			
URINARY BLADDER	ER Hemorrhage, Submucosal,		Acute, Mild, Multifocal.			

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	IE OF RESEARCH Serv GP	Individual Animal Data Dump Table Study Number: 88008M	PRINTED: 26-0ct-89 Page: 34
PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	SCO, CA 94129	Study Start Date: 07-Feb-89	SUB-ACUTE/
Animal: 89A00005 Day of death: 15	Sex: Male Status: Final sacrifice	Animal: 89A00005 Sex: Male Group: 9 Terminal body weight (kms): 13.05	20.0 ML/KG/day 13.05
Tissue	A sethologic diagnoses / Special histological comments	pathology Observations >> s/Special histological comments	
URINARY BLADDER LYMP	Lymphocyte Infiltration, Mild, Focal.		

Lymphocyte Infiltration, Mild, Multifocal.

Required protocol tissue is missing.

MAMMARY GLANDS

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REPORT
PATHOLOGY
(cont.):
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LETTERMAN ARMY DIV OF RES SUP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	ESEARCH	Individual Animal Data Dump Study Number: 88008M	nal Data Dump Table Imber: 88008M		PRINTED: 26-Oct-89 Page: 35
PRESIDIO OF SA DOG/BEAGLE	SAN FRANCISCO, CA 94129	94129	Study Start Dat	Date: 07-Feb-89		SUB-ACUTE/
	89A00049	Sex: Male Status: Final sacrifice		Group: 9 Terminal	Dose level: Terminal body weight (kms):	0 11
Date	Day/week of Study	ody Organ Rame	Organ We Absolute Organ Weight (9ms)	ights >> Relative X of Body Weight	Relative X of Brain Weight	Orsan Status
000 - T of 0	\$0.78	LIVER	448.0	3.73	9.909	
28 Mar - 89	50/8	KIDNEY	58.7	0.49	79.5	1 1 2
28 - Mar - 89	50/8	HEART	87.6	0.73	118.6	UB 1 H
28-Mar-89	50/8		73.9	0.62	100.0	
28-Mar-89	\$0/8	ADRENAL GLANDS	1.35	0.01	20	200
28-Mar-89 28-Mar-89	50/8 50/8	SPLEEN	85.9	0.72	116.3	
Tissue	Finding, sev	<< G r severity	s q O s s o	Gross Free-Text Comments		
WHOLE BODY	NO LESIONS RECOGNIZED	RECOGNIZED	1			
		¥	Necropsy	T 6 3 0 8 >>		
Tissue	Mecropsy memos	som				
No necropsy memos	emos recorded on animal	animal				
Tissue	Histopathold	<pre></pre>	o t o g y 0 ial histological	b servations comments	^	
TONSIL(S)	Crypt Absce	Crypt Abscess, Mild, Multifocal.				
LACRIMAL GLAND		Duct Ectasia, Mild, Multifocal.				
LIVER	Hepatocellu	Hepatocellular Vacuolation, Coar	Coarse Type, Mild.			
MAMMARY GLANDS		Required protocol tissue is missing	dng.			
JEJUNUM	Required pro	Required protocol tissue is missing	ing.			
SKIN, ANTEBRACH.		Required protocol tissue is missing	ting.			
CEPHALIC VEIN		Required protocol tissue is missing	ing.			

LETTERMAN ARM)	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	RESEAR			Individual Animal Data Dump Study Number: 88008M	al Data Dump Table mber: 88008M		PRINTED: 26-Oct-89 Page: 36
PRESIDIO OF SA	PRESIDIO OF SAN FRANCISCO, CA 94129 Dog/beagle	CA 9412	0		Study Start	Study Start Date: 07-Feb-89		SUB-ACUTE/
Animal: Day of death:	89A00055	Status:	1 ± 4	sacrific		Group: 9 Terminal body	Dose level:   body weight (kms):	20.0 ML/KG/day 11.00
	Day/week of Study	Study	Organ Name	·	Organ We Absolute Organ Weight (gms)	ights >> Relative % of Body Weight	Relative % of Brain Weight	Organ Status
98-18M-62	51/8	; ; ;	LIVER		384.7	3,50	423.1	
29-Mar-89	51/8		HEART .		8.66	0.91	109.8 100.0	нідћ
29-Mar-89 29-Mar-89 20-Mar-89	51/8		A L S	GLANDS	1.51	0.014	1.66 24.32	Low
29-Mar-89	51/8		SPLEEN		125.7	1.14	138.3	
Tissue	Finding, severity	severit		٥ - ٢	oss obse	Gross Free-Text Comments	S	
WHOLE BODY	NO LESIONS RECOGNIZED	S RECOG	NIZED					
, , ,	2	6		ţ	Necropsy	X S O E & X		
I I SSUE	recropsy memos	on enim	el (	1				
Tissue	<< Histopathologic diagnose	ologic	<< diagnoses	Patho ,/Specia	logy 0 histological	bservations comments	^^	
LACRIMAL GLAND	Duct	Ectasia, Sl	Slight.	; ; ;				
LIVER	Hepatocellular Vacuolati	(ular V	acuotatio,	on, Coars	Coarse Type, Mild.			
KIDNEY	Inflammat	ion, Ir	iterstitia	it, Suba	Inflammation, Interstitial, Subacute, Slight, Focal	•		
MES. LYMPH NODE		o/pue u	ır Hemorrh	age of	Congestion and/or Hemorrhage of the Medulla, Slight	.:		
MAMMARY GLANDS	S Required protocol tissue	protoco	il tissue	is missing	ing.			

LETTERMAN ARMY I	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	СН	Individual Anim Study Nu	Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-Oct-89 Page: 37
PRESIDIO OF SAN DOG/BEAGLE	FRANCISCO, CA 9412	6	Study Start	Study Start Date: 07-Feb-89		SUB-ACUTE/
Animal: 89A00006 Day of death: 15	A00006 Sta	Sex: Male Status: Final sacrifice	· · · · · · · · · · · · · · · · · · ·	Group: 10 Terminal	Terminal body weight (kms):	20.0 ML/KG/day 11.95
, , ,	Day/week of Study	Organ Name	Absolute Organ	ights >>> Relative X of Body Weight	Relative % of Brain Weight	Organ Status
21-Feb-89	15/3	LIVER	416.8	9.49 9.56	476.3	
21-feb-89 21-feb-89	15/3	HEART	9.1.1	0.76	104.	High
21.Feb-89 21.Feb-80	15/3	BRAIN ADRENAL GLANDS	87.5 1.26	0.011	1.44	
21-Feb-89 21-Feb-89	15/3		23.58	0.197 0.36	26.94 48.9	L O E
Tissue	Finding, severity	. 6	es do se o	Gross free-Text Comments		
HEART	HEMATOCYST(S), I ENDOCARDIOSIS, M	Trace Mild	N. T. T. T. T. T. T. T. T. T. T. T. T. T.	MULTIFOCAL MURAL LEAFLET, TRICUSPID VALVE	VALVE	
7 i ssue	Necropsy memos	*	Necrops y	T 6 3 0 %		
No necropsy memo	No necropsy memos recorded on animal	len				
Tissue	<< Histopathologic diagnose	<pre></pre>	l o g y 0 b histological cc	bservations comments	^	
HEART	Endocardiosis, Valvular,	Valvular, Mild.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

PATHOLOGY ANNEX B (cont.)

Hepatocellular Vacuolation, Coarse Type, Mild.

Inflammation, Chronic, Moderate. Hemorrhage, Moderate. Folliculitis, Subacute, Mild.

SKIN, ANTEBRACH.

LIVER

### PATHOLOGY REPORT Appendix I (cont.):

LETTERMAN ARM DIV OF RES SUI	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	ARCH	Individual Anim Study Nu	Individual Animal Data Dump Table Study Number: 88008M		PRINTED: 26-Oct-89 Page: 38
PRESIDIO OF S. DOG/BEAGLE	AN FRANCISCO, CA 94	129	Study Start	Study Start Date: 07-feb-89		SUB-ACUTE/
Animal: 89 Day of death: 15	A00044	Sex: Male Status: Final sacrifice	• • • • • • • • • • • • • • • • • • •	Group: 10 Terminal	Dose level: Terminal body weight (kms):	20.0 ML/KG/dey 12.80
Date	Day/week of Study	Organ Name	Organ We Absolute Organ Weight (gms)	ights >> Relative % of Body Weight	Relative % of Brain Meight	Organ Status
28-Mar-89		LIVER	413.0	3,23	7.77	30]
28-Mar-89	50/8	KIDNEY	55.5	0.43	63.7	High
28-181-85		ERAIN	87.1	0.68	100.0	
28-Mar-89		ADRENAL GLANDS	1.42	0.011	1.63	
28-Mar-89		TESTIS	19.42	0.152	22.29	ron
28-Mar-89		SPLEEN	103.6	0.81	118.9	
		7 9 >>	oss o obse	servations >>		
Tissue	Finding, severity	ity	19	Gross Free-Text Comments	S	
WHOLE BODY	NO LESIONS RECOGNIZED	0GN1ZED				
		ť	Necropsy	*		
Tissue	Necropsy memos					
No necropsy m	No necropsy memos recorded on animal	imal				

Austopathologic diagnoses / Special histological comments Tissue

Atrophy, Acinar, Slight, Focal. SALIVARY GLAND

LUNGS

LIVER

Granuloma, Mild, Focal. /The granuloma contains a particle of plant material and is considered to be a foreign body granuloma.

Repatocellular Vacuolation, Coarse Type, Mild.

Acinar (Exocrine) Cell Atrophy, Slight. PANCREAS

Required protocol tissue is missing. MAMMARY GLANDS

SKIN, ANTEBRACH. Inflammation, Chronic, Slight.

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LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP		Individual Animal Data Dump Table Study Number: 88008M		Page: 39
PRESIDIO OF SAN FRANCISCO, CA 94129 DOG/BEAGLE		Study Start Date: 07-Feb-89	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	/3LP-ACUE
Animal: 89A00044 Sex: Male Day of death: 15		Group: 10 Gruinal boc	Dose level: Terminal body weight (kms):	20.0 ML/KG/day 12.80
**		pathology observations >>		
Tissue	Histopathologic diagnoses / Special histological comments	s / Special histological comments		
CEPHALIC VEIN Endo	Endophlebitis, Moderate, Focal.			

LETTERMAN ARMY	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP PATH SERV GP	IRCH :	Individual Animal Data Dump Study Number: 88008M	al Data Dump Table mber: 88008M		PRINTED: 26-0ct-89 Page: 40
PRESID.O OF SA DOG/BEAGLE	PRESID.O OF SAN FRANCISCO, CA 94129 DOG/BEAGLE	129	Study Start	Study Start Date: 07-feb-89		SUB-ACUTE/
Animal: Day of death:	Animal: 89A00057 death: 15	# W.		Group: 10 Terminal	Terminal body weight (kms):	20.0 ML/KG/day 11.00
Date	Day/week of Study	<pre> dy Organ Name  ***  ***  ***  ***  ***  ***  ***</pre>	Organ We Absolute Organ Weight (gms)	ights >> Relative % of Body Weight	Relative X of Brain Weight	Organ Status
20-Mar-89	51/8	LIVER	312.7	2.84	403.4	Low
29-Mar-89	51/8	KIDNEY	56.5	0.51	72.8	Hei H
20-Mar-89	51/8	- X X X X X X X X X X X X X X X X X X X	77.5	0.70	100.0	· •
29-Mar-89	51/8	ADRENAL GLANDS	1.30	0.012	1.68	30
29-Mar-89 29-Mar-89	51/8	SPIEEN	133.2	1.21	171.8	
Tissue	finding, severity	** 6 F	9 S Q Q S S O	ervations >> Gross free-Text Comments	10	
WHOLE BODY	NO LESIONS RECOGNIZED	JGN12ED	, , , , , , , , , , , , , , , , , , , ,			
		ť	Necropsy	It emos >>		
Tissue	Necropsy memos					
No necrupsy memos	emos recorded on animal	imal				
Tissue	<ه Histopathologic diagnoses	۳,	ology 0 ial histological	b servations comments	^	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
LUNGS	Inflammation, Interstitia	Interstitial, Subac	Inflammatior, Interstitial, Subacute, Slight, Focal			
LIVER	Hepatocellular	Hepatocellular Vacuolation, Coarse Type, Slight.	se Type, Slight.			
THYMUS	Ultimobranchia	l Cyst, Ciliated or	Ultimobranchial Cyst, Ciliated or Non-Ciliated, Slight	ght.		
MAMMARY GLANDS	S Required protocol tissue	col tissue is missing	ing.			
SKIN, ANTEBRACH.	CH. Hemorrhage, Moderate	derate.				

### Pathology Annex C: GLOSSARY

### Adrenal

--Inflammation, Subacute: Multifocal aggregates of lymphocytes, occasionally with a few neutrophils and macrophages, are present in the cortex and/or medulla.

--Vacuolar Change, Cortical Cells: Cells in the cortex, primarily the zona fasciculata, are distended by an intracytoplasmic accumulation of discrete round vacuoles.

### Brain

--Hemorrhage, Acute: Self-Explanatory.

--Hemosiderin in Macrophages: Perivascular spaces contain a few macrophages laden with golden-brown, isotropic, globular pigment. This is considered evidence of hemorrhage occurring at least several days previously.

--Inflammation, Subacute: Aggregates of lymphocytes, with a few macrophages, are present in the choroid plexus.

### Cephalic Vein

--Endophlebitis: The endothelial surface is disrupted, usually with an adherent mass of fibrin. Neutrophils are locally present subjacent to the endothelium. Adjacent endothelium may be hypertrophic and/or hyperplastic.

### Cervical Lymph Node

--Green Pigment in Macrophages: The pigment is very dark green, and is isotropic. It is considered to originate from ear tattoc ink. The macrophages are predominantly located in the medullary sinuses.

### Colon

--Granuloma, Submuccsal, Foreign-Body: An aggregate of macrophages and lymphocytes is located in the submucosa. Foreign material is located in the center of the granuloma.

Pathology Annex C (cont.): GLOSSARY

### Duodenum

--Cyst, Glandular, Mucosal: One or more crypts is dilated and filled with proteinaceous material. Although the cyst may contain epithelial cell debris, no infiltration of neutrophils has occurred.

### Esophagus

--Inflammation of Submucosal Glands, Acute: Neutrophils surround and infiltrate the mucous glands in the esophageal submucosa.

### Heart

- --Endocardiosis, Valvular: One or more of the atrioventricular valves is thickened by an increase in sterlate mesenchymal cells, by increased amounts of eosinophilic fibers (collagen), and by an increase in pale amphophilic background material (matrix).
- --Endocarditis, Valvular: One or more of the valves is infiltrated by neutrophils.
- --Epicarditis, Subacute: The epicardial connective tissue and fat is infiltrated by lymphocytes and a few macrophages.
- --Thrombosis, Valvular: A mass of fibrin is adherent to one of the valves.

### Jejunum

- --Cyst, Glandular, Muccsal: See Dundenum.
- --Enteritis, Acute: Mucosal glandular cysts are surrounded by and infiltrated by neutrophils.
- --Nematodiasis: Cross-sections of nematode larvae are present in the intestinal lumen between villi.

### Kidnev

--Infarct: A well-demarcated wedge-shaped area of the cortex is undergoing coagulative necrosis.

### Pathology Annex C (cont.): GLOSSARY

- --Inflammation, Interstitial, Subacute: Cortical and/or medullary interstitial aggregates of leukocytes, predominantly lymphocytes, but with some macrophages, eosinophils, and neutrophils. A few adjacent tubule epithelial cells may be undergoing necrosis.
- --Nephrocalcinosis: Small mineralized foci, often intratubular, are present in the renal papilla.
- --Proteinaceous Casts: Renal tubules in the cortex and/or medulla contain homogeneous ecsinophilic material.

### Lacrimal Gland

- --Acinar Atrophy: One or more acini are composed of basophilic cells with decreased cytcplasmic volume. Acinar ductules may be slightly dilated.
- --Duct Ectasia: Ducts and ductules are dilated and contain faintly-stained, amphophilic, fibrillar material (secretion).
- --Lymphocytic Infiltration: Lymphocytes are present in increased numbers in the interstitial connective tissue.

### Liver

- --Extramedullary Hematopoiesis: Small sinusoidal and occasionally periportal clusters of immature leukocytes and, occasionally, erythrocytes.
- --Hepatocellular Vacuolation, Coarse Type: Hepatocytes are distended by numerous, poorly defined irregular clear spaces. This appearance is compatible with the intracellular accumulation of glycogen. 1 Slightly more than normal. 2 Hepatocytes are distended sufficiently to cause narrowing of the sinusoids. 3 Sinusoids are collapsed.
- --Inflammation, Subacute: Multifocal infiltration of the connective tissue of portal triads and/or sinusoids by a mixed population of mononuclear cells.
- --Pigment-Laden Macrophages, Predominantly Periportal: The pigment is yellow-brown, isotropic, and in waxy-appearing intracellular masses. A few hepatocytes contain similar material. Based on the these characteristics the pigment is

### Pathology Annex C (cont.): GLOSSARY

presumed to be bile.

--Thrombosis, Portal Vein: An acute fibrin thrombus is present in one of the larger portal veins.

### Lungs

- --Alveolar Proteinosis: Dense essinophilic masses are present in the lumens of alveoli, with a scant local increase in alveolar macrophages.
- --Granuloma: A focal aggregate of macrophages and lymphocytes, with or without multinucleated giant cells.
- --Inflammation, Hemorrhagic, Acute: Alveoli contain a mixture of neutrophils, erythrocytes, and fibrin. The adjacent interstitial is thickened with increased numbers of neutrophils.
- --Inflammation, Interstitial, Subacute: Multifocal, interstitial aggregates of macrophages and neutrophils, with a few lymphocytes, are randomly scattered through the parenchyma.
- --Thrombosis: Masses of fibrin are present in pulmonary arteries.

### Mesenteric Lymph Node

- --Congestion and/or Hemorrhage of the Medulla: Self-explanatory.
- --Sinus Neutrophilia: Increased numbers of neutrophils are present in the medullary and/or subcapsular sinus.

### Pancreas

- --Acinar (Exocrine) Atrophy: Decreased numbers of exocrine acini result in prominence of ducts. Fibrous connective tissue may also be locally increased due to the loss of acini.
- --Acinar Hypertrophy and Vacuolation: All cells comprising individual acini are increased in size, and have pale, eosinophilic, vacuolated cytoplasm.

### Pathology Annex C (cont.): GLOSSARY

### Parathyroid

- --Cartilaginous Rest(s): One or more small foci of normal cartilage is present in the parathyroid.
- --Cyst(s), Ciliated or Non-Ciliated: Self-Explanatory.

### Pituitary Gland

- --Cyst(s): Ciliated or non-ciliated, in any portion of the gland.
- --Histiocytosis: Accumulation of vacuolated macrophages in the interstitial connective tissue.

### Prostate Gland

- --Inflammation, Subacute: The interstitium and, to a lesser extent, the acinar or ductular epithelium is infiltrated by lymphocytes, with fewer macrophages and neutrophils also present.
- --Interstitial Lymphocyte Infiltration: Lymphocyte, individually and in aggregates, are confined to the interstitial connective tissue.

### Salivary Gland

- --Atrophy, Acinar: See Lacrimal Gland.
- -- Duct Ectasia: See Lacrimal Gland.
- --Inflammation, Chronic: Interstitial fibrosis is accompanied by aggregates of macrophages, symphocytes and/or plasma cells.

### Skeletal Muscle

--Fasciitis, Chronic, with Mineralization: The epimysial fascia is fibrotic, mineralized, and infiltrated by macrophages and lymphocytes.

### Pathology Annex C (cont.): GLOSSARY

### Skin

- --Dermatitis, Ulcerative: The epidermis is ulcerated and covered by necrotic debris mixed with proteinaceous exudate. The dermis is infiltrated by neutrophils, macrophages and lymphocytes. Neovascularization and fibrosis is present.
- --Ectasia, Apocrine Glands: Apocrine glands in the dermis are abnormally dilated.
- --Folliculitis, Subacute: Dermal hair follicles and adnexa are surrounded by and infiltrated by macrophages and lymphocytes, with and occasional neutrophil.

### Spleen

- --Accessory Spleens: Small, normally organized spleens are present in the mesentery, separated from the main body of the organ.
- --Hemorrhage, Acute: Extravasated erythrocytes are present in trabeculae, or within splenic corpuscles.
- --Siderotic Plaque: Thickening and fibrosis of the splcnic capsule accompanied by mineralization, accumulation of varying numbers of hemosiderin-lader macrophages, and occasionally extramedullary hematopoiesis.

### Stomach

--Lymphocyte Aggregates in Submucosa: Self-Explanatory.

### Submandibular Lymph Node

--Sinus Histiocytosis: Subcapsular and/or medullary sinus contain increased numbers of "foamy" macrophages.

### Thymus

- --Atrophy: The cortex and medulla are decreased in diameter, with relative prominence of Hassall's Corpuscles.
- --Ultimobranchial Cyst, Ciliated or Non-Ciliated: Cyst(s) lined by ciliated or squamous epithelium is(are) present in the thymus, usually in the medulla.

### Pathology Annex C (cont.): GLOSSARY

### Thyroid

--Cyst, Ciliated or Non-Ciliated: Self-Explanatory. Does not include follicular cysts.

### Tonsil(s)

--Crypt Abscess: One or more of the tonsillar crypts is dilated contains increased numbers of neutrophils usually surrounding foreign material. The adjacent epithelium is similarly infiltrated.

--Hemorrhage/Congestion: 3elf-Explanatory.

### Trachea

--Cartilaginous Hypoplasia: Cartilage rings are decreased in width, with decreased space separating chondrocytes. More sections of rings/histologic section of trachea are present than usual.

### Ureter

--Lymphocyte Infiltration: The submucosa contains increased numbers of lymphocytes, some of which are organized into follicles.

### Urinary Bladder

- --Hemorrhage, Submucosal, Acute: Self-Emplanatory.
- --Lymphocyte Infiltration: The submucosa and, to a lesser extent, the mucosa contain increased numbers of lymphocytes, some of which are organized into follicles.
- --Thrombosis: One or more submucosal vessels contains a fibrin thrombus.

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